Versi 1.0	on	Revision Date: 06/03/2021		S Number: 0000011046	Date of last issue: - Date of first issue: 06/03/2021
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SECT	TION 1	IDENTIFICATION			
F	Product name			ARALDITE® 205	3-15 A
r	Manufacturer or supplier's c			ils	
	Company name of supplier Address			Huntsman Advar P.O. Box 4980 The Woodlands, TX 77387 United States of	nced Materials Americas LLC America (USA)
-	Telepho	one	:	Non-Emergency	
	E-mail address of person responsible for the SDS		:	Global_Product_	EHS_AdMat@huntsman.com
E	Emerge	ency telephone number	r :	Chemtrec: (800)	424-9300 or (703) 527-3887
F	Recommended use of the che			ical and restriction	ons on use
F	Recom	mended use	:	Resin	

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	: Category 2	
Skin irritation	: Category 2	Chemical <sup>™</sup> Concepts
Serious eye damage	: Category 1	Our expertise is your solution.
Skin sensitisation	: Category 1	chemical-concepts.com
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)	<b>800.220.1966</b> 410 Pike Road • Huntingdon Valley, PA 19006
Short-term (acute) aquatic hazard	: Category 3	
Chronic aquatic toxicity	: Category 3	
GHS label elements Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H225 Highly flammable liquid and va	apour.

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<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H335 May cause respiratory irritation.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul> Precautionary statements <ul> <li>Prevention:</li> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfac No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge P261 Avoid breathing mist or vapours.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P271 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P230 H293 IF ON SKIN (or hair): Take off immedia all contaminated clothing. Rinse skin with water/ shower.</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immedia all contaminated clothing. Rinse skin with water/ shower.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh and keep comfortable for breathing. Call a POISON CENTEI doctor if you feel unwell.</li> <li>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously water for several minutes. Remove contact lenses, if prevention.</li> <li>P333 H P313 If skin irritation or rash occurs: Get medical adriatention.</li> <li>P333 H P338 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</li> <li>Storage:</li> <li>P403 + P323 Store in a well-ventilated place. Keep containe tightly closed.</li> </ul>			-	Enriching lives through innovation
1.0       06/03/2021       400000011046       Date of first issue: 06/03/2021         Print Date 12/07/20         H315 Causes skin irritation.       H315 Causes skin irritation.         H317 May cause an allergic skin reaction.       H318 Causes serious eye damage.         H335 May cause respiratory irritation.       H412 Harmful to aquatic life with long lasting effects.         Precautionary statements         Precautionary measures against static discharge precautionary measures against static discharge equipment.         P242 Use only non-sparking tools.         P242 Use only outdoors or in a well-ventilated area.         P271 Use only outdoors or in a well-ventilated area.         P272 Contaminated work clothing must not be allowed out o the workplace.         P273 Avoid release to the environment.         P280 Wear protective gloves/ eye protection/ face protection <b>Response:</b> P303 + P361 + P353 IF ON SKIN (or hair): Take off immedia all contaminated clothing. Rines skin with water/ shower.	ARALD	DITE® 2053-15	4	
<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H335 May cause respiratory irritation.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul> Precautionary statements <ul> <li>Prevention:</li> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfac No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge P261 Avoid breathing mist or vapours.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ eye protection/ face protection <b>Response:</b></li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immedia all contaminated clothing. Rinse skin with water/ shower.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh and keep comfortable for breathing. Call a POISON CENTEI doctor if you feel unwell.</li> <li>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously w water for several minutes. Remove contact lenses, if prevention.</li> <li>P333 + P311 If skin irritation or rash occurs: Get medical adriatention.</li> <li>P362 Take off contaminated clothing and wash before reuse P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</li> <li>Storage:</li> <li>P403 + P333 Store in a well-ventilated place. Keep containe tightly closed.</li> </ul>				
<ul> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfac No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge P261 Avoid breathing mist or vapours.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing must not be allowed out o the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ eye protection/ face protection <b>Response:</b></li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immedia all contaminated clothing. Call a POISON CENTER doctor if you feel unwell.</li> <li>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously w water for several minutes. Remove contact lenses, if presen and easy to doctor.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical advantention.</li> <li>P362 Take off contaminated clothing and wash before reuse P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</li> <li><b>Storage:</b></li> <li>P403 Store in a well-ventilated place. Keep containe tightly closed.</li> </ul>			H317 May caus H318 Causes s H335 May caus	se an allergic skin reaction. serious eye damage. se respiratory irritation.
P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/container to an approved facility ir accordance with local, regional, national and international regulations.	Preca	nutionary statements	P210 Keep awa No smoking. P233 Keep cor P240 Ground/b P241 Use exple equipment. P242 Use only P243 Take pre P261 Avoid bre P264 Wash ski P271 Use only P272 Contamir the workplace. P273 Avoid rele P280 Wear pro <b>Response:</b> P303 + P361 + all contaminate P304 + P340 + and keep comf doctor if you fe P305 + P351 + water for sever and easy to do CENTER/ doct P333 + P313 If attention. P362 Take off of P370 + P378 Ir alcohol-resistan <b>Storage:</b> P403 + P233 S tightly closed. P403 + P235 S P405 Store loc <b>Disposal:</b> P501 Dispose of accordance wit	<ul> <li>htainer tightly closed.</li> <li>bond container and receiving equipment.</li> <li>bosion-proof electrical/ ventilating/ lighting</li> <li>non-sparking tools.</li> <li>cautionary measures against static discharge.</li> <li>beathing mist or vapours.</li> <li>in thoroughly after handling.</li> <li>butdoors or in a well-ventilated area.</li> <li>hated work clothing must not be allowed out of</li> <li>bease to the environment.</li> <li>bective gloves/ eye protection/ face protection.</li> <li>P353 IF ON SKIN (or hair): Take off immediatel</li> <li>bed clothing. Rinse skin with water/ shower.</li> <li>P312 IF INHALED: Remove person to fresh air</li> <li>ortable for breathing. Call a POISON CENTER/</li> <li>el unwell.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously with</li> <li>al minutes. Remove contact lenses, if present</li> <li>Continue rinsing. Immediately call a POISON or.</li> <li>skin irritation or rash occurs: Get medical advice</li> <li>contaminated clothing and wash before reuse.</li> <li>n case of fire: Use dry sand, dry chemical or</li> <li>nt foam to extinguish.</li> </ul>

Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Hazardous components

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Chemical name	CAS-No.	Concentration (% w/w)
methyl methacrylate	80-62-6	50 - 70
silica, amorphous, fumed, crystalline free	7631-86-9	5 - 10
methacrylic acid	79-41-4	5 - 10
octadecyl methacrylate	32360-05-7	1 - 5
hexadecyl methacrylate	2495-27-4	1 - 5
calcium carbonate	471-34-1	1 - 5
zinc oxide	1314-13-2	1 - 5
Talc (Mg3H2(SiO3)4)	14807-96-6	0.1 - 1
2,2'-[(4-methylphenyl)imino]bisethanol	3077-12-1	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	:	None known.

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Protection of first-aiders		and use the If potential fo personal prot Avoid inhalat No action sha suitable train It may be dat	Print Date 12/07/2021 ponders should pay attention to self-protection recommended protective clothing r exposure exists refer to Section 8 for specific tective equipment. ion, ingestion and contact with skin and eyes. all be taken involving any personal risk or without ing. ngerous to the person providing aid to give uth resuscitation.
Note	s to physician	: Treat sympto	matically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Use personal protective equipment.
protective equipment and		Ensure adequate ventilation.
emergency procedures		Remove all sources of ignition.
		Evacuate personnel to safe areas.
		Refer to protective measures listed in sections 7 and 8.
		Beware of vapours accumulating to form explosive
		concentrations. Vapours can accumulate in low areas.

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Env	ronmental precautions	:	Prevent further le	Print Date 12/07/2021 rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.
Methods and materials for containment and cleaning up		:	Contain spillage, absorbent materia vermiculite) and p	alk, alkali solution or ammonia. and then collect with non-combustible al, (e.g. sand, earth, diatomaceous earth, lace in container for disposal according to gulations (see section 13).

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against : fire and explosion	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling :	Use only with adequate ventilation/personal protection. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Keep container closed when not in use. Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage :	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.
Materials to avoid :	Keep away from strong bases.
Recommended storage : temperature	36 - 46 °F / 2 - 8 °C
Further information on : storage stability	Stable under normal conditions.



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm	OSHA Z-1
			410 mg/m3	
		TWA	100 ppm 410 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA P0
silica, amorphous, fumed,	7631-86-9	TWA (Dust)	20 Million	OSHA Z-3
crystalline free			particles per cubic	
			foot	
			(Silica)	
		TWA (Dust)	80 mg/m3 /	OSHA Z-3
			%SiO2	
			(Silica)	
		TWA	6 mg/m3 (Silica)	NIOSH REL
methacrylic acid	79-41-4	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m3	NIOSH REL
		TWA	20 ppm 70 mg/m3	OSHA P0
zinc oxide	1314-13-2	TWA	2 mg/m3	ACGIH
		(Respirable	Ŭ	
		particulate		
		matter)		
		STEL	10 mg/m3	ACGIH
		(Respirable		
		particulate		
		matter)		
		TWA	5 mg/m3	OSHA Z-1
		(Fumes)		
		TWA (total	15 mg/m3	OSHA Z-1
		dust) TWA	E ma/m2	
			5 mg/m3	OSHA Z-1
		(respirable fraction)		
		TWA (Dust)	5 mg/m3	NIOSH REL
		TWA (Dust)	5 mg/m3	NIOSH REL
		(Fumes)		NOOTINEL
		ST (Fumes)	10 mg/m3	NIOSH REL
		C (Dust)	15 mg/m3	NIOSH REL
		TWA (Total	10 mg/m3	OSHA P0
		dust)		
		TWA	5 mg/m3	OSHA P0
		(respirable		
		dust fraction)		



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			TWA (Fumes)	5 mg/m3	OSHA P0
			STEL	10 mg/m3	OSHA P0
			(Fumes)		
calciu	m carbonate	471-34-1	TWA (Respirable)	5 mg/m3 (Calcium carbonate)	NIOSH REL
			TWA (total)	10 mg/m3 (Calcium carbonate)	NIOSH REL
Talc (	Mg3H2(SiO3)4)	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
			TWA (Respirable)	2 mg/m3	NIOSH REL
			TWA	0.1 fibres per cubic centimeter	ACGIH
			TWA (Respirable particulate matter)	2 mg/m3	ACGIH
			TWA (respirable dust fraction)	2 mg/m3	OSHA P0
	onal protective equi				
Kespi	ratory protection	Respirator wi Recommende Combined pa Respirator se exposure leve	iratory equipme th a half face ma ed Filter type: rticulates and o lection must be	ask rganic vapour type based on known or a of the product and the	
Filter	type	: Filter type A-I	P2 (organic vap	ours, particles)	
	protection				
Mate Mate		: butyl-rubber	Icohol Laminate	(=\/\ )	
	k through time	: >8h			
Mate Break	rial < through time	: Nitrile rubber : 10 - 480 min			
Rema	arks	approved sta chemical proc necessary. The suitability with the produ Take note of concerning po	ndard should be ducts if a risk as of for a specific w ucers of the pro- the information ermeability and	us gloves complying v worn at all times whe sessment indicates th vorkplace should be di tective gloves. given by the producer break through times, a (mechanical strain, di	en handling is is iscussed and of

contact).



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Eye protection		: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.				
Skin and body protection		, ,	thing protection according to the amount and of the dangerous substance at the work place.			
Hygiene measures		When using do	<ul> <li>When using do not eat or drink.</li> <li>When using do not smoke.</li> <li>Wash hands before breaks and at the end of workday.</li> </ul>			

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	paste
Colour	:	beige
Odour	:	acrylic-like
Odour Threshold	:	No data is available on the product itself.
рН	:	4 Concentration: 500 g/l
Melting point/freezing point	:	No data is available on the product itself.
Boiling point	:	No data is available on the product itself.
Flash point	:	50 °F / 10 °C
Evaporation rate	:	No data is available on the product itself.
Flammability (solid, gas)	:	No data is available on the product itself.
Flammability (liquids)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	:	No data is available on the product itself.
Vapour pressure	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	No data is available on the product itself.
Density	:	1.04 g/cm3 (77 °F / 25 °C)
Solubility(ies) Water solubility	:	insoluble, immiscible

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So	lubility in other solvents	: No data	is available on the product itself.	
Partition coefficient: n- octanol/water		: No data is available on the product itself.		
	ignition temperature	: No data	is available on the product itself.	
Therr	Thermal decomposition		is available on the product itself.	
Self-Accelerating decomposition temperature (SADT)		: No data	is available on the product itself.	
	Viscosity Viscosity, dynamic		nPa.s (77 °F / 25 °C)	
Explo	Explosive properties		is available on the product itself.	
Oxidi	zing properties	: No data	is available on the product itself.	
Partic	Particle size		is available on the product itself.	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	None known.
Hazardous decomposition products	:	carbon dioxide carbon monoxide

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	No data is available on the product itself.
Acute toxicity		
Acute oral toxicity - Product	:	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity - Product	:	Acute toxicity estimate: 44.08 mg/l Exposure time: 4 h Test atmosphere: vapour





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		Method: Calcu	Print Da lation method
Acute Produ	e dermal toxicity - uct	: Acute toxicity e Method: Calcu	estimate : > 5,000 mg/kg lation method
	e toxicity (other routes nistration)	of : No data availal	ble
Skin	corrosion/irritation		
meth Spec Meth	ponents: yl methacrylate: ies: Rabbit od: OPPTS 870.2500 lt: Skin irritation		
Speci Asse: Metho	, amorphous, fumed, c ies: Rabbit ssment: No skin irritati od: OECD Test Guide lt: No skin irritation	ion	
Spec Asse Methe	2		sue.
	lecyl methacrylate: It: Skin irritation		
	decyl methacrylate: It: Skin irritation		
Speci Asses Metho	um carbonate: ies: Rabbit ssment: No skin irritati od: OECD Test Guide It: No skin irritation		
Spec Asse Methe	oxide: ies: Rabbit ssment: No skin irritati od: OECD Test Guide It: No skin irritation		
Speci Asse: Methe	(4-methylphenyl)imino ies: Rabbit ssment: No skin irritati od: Other guidelines It: No skin irritation no		

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#### Serious eye damage/eye irritation

#### Components:

silica, amorphous, fumed, crystalline free: Species: Rabbit Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

methacrylic acid: Species: Rabbit Result: Irreversible effects on the eye Assessment: Risk of serious damage to eyes. Method: Draize Test GLP: no

octadecyl methacrylate: Result: Eye irritation

hexadecyl methacrylate: Result: Eye irritation

calcium carbonate: Species: Rabbit Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

zinc oxide: Species: Rabbit Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

2,2'-[(4-methylphenyl)imino]bisethanol: Species: Rabbit Result: Risk of serious damage to eyes. Assessment: Risk of serious damage to eyes. Method: OECD Test Guideline 405 GLP: no

#### Respiratory or skin sensitisation

#### Components:

methyl methacrylate: Exposure routes: Skin Species: Mouse Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 429 Result: May cause sensitisation by skin contact.

methacrylic acid: Test Type: Buehler Test Exposure routes: Skin Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.



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Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.

octadecyl methacrylate: Exposure routes: Skin Species: Mouse Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

hexadecyl methacrylate: Exposure routes: Skin Species: Mouse Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

zinc oxide: Exposure routes: Skin Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Local lymph node assay (LLNA) Species: Mouse Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 429 Result: May cause sensitisation by skin contact. GLP: yes Remarks: Information given is based on data obtained from similar substances.

Assessment:

No data available

#### Germ cell mutagenicity

#### Components:

methyl methacrylate: Genotoxicity in vitro :	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative
silica, amorphous, fumed, crystal Genotoxicity in vitro :	line free: Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
methacrylic acid: Genotoxicity in vitro :	Test Type: reverse mutation assay

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		Metabolic activa	Print Date 12/07/2021 almonella typhimurium ation: with and without metabolic activation Test Guideline 471
octadecyl methacrylate: Genotoxicity in vitro			ation: with and without metabolic activation Test Guideline 476
		Metabolic activa	33 - 5000 ug/plate ation: with and without metabolic activation Test Guideline 471 e
		Metabolic activa	14.5 - 2233 μg/L ation: with and without metabolic activation Test Guideline 473 ອ
	decyl methacrylate: otoxicity in vitro		ation: with and without metabolic activation Test Guideline 476
		Metabolic activa	33 - 5000 ug/plate ation: with and without metabolic activation Test Guideline 471
		Metabolic activa	14.5 - 2233 μg/L ation: with and without metabolic activation Test Guideline 473 e
	um carbonate: otoxicity in vitro		ation: with and without metabolic activation Test Guideline 471 e
			ation: with and without metabolic activation Test Guideline 476
	oxide: otoxicity in vitro	Test system: Sa Metabolic activa	rse mutation assay almonella tryphimurium and E. coli ation: with and without metabolic activation Test Guideline 471
			omosome aberration test in vitro ninese hamster lung cells

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ersion .0	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
			Print Date 12/07/202 ation: with and without metabolic activation Test Guideline 473
			ation: without metabolic activation Test Guideline 487
	4-methylphenyl)iming toxicity in vitro	: Test Type: reve Test system: S Metabolic activ	erse mutation assay almonella typhimurium ation: with and without metabolic activation Test Guideline 471 e
		Test Type: Chr Test system: H Metabolic activ Method: OECD Result: negativ GLP: yes	mation given is based on data obtained from
		Test system: m Metabolic activ Method: OECD Result: negativ GLP: yes Remarks: Infor	mation given is based on data obtained from
0		similar substan	ces.
silica,	oonents: amorphous, fumed, toxicity in vivo	crystalline free: : Application Rou Dose: 50 mg/m Result: negativ	3
methacrylic acid: Genotoxicity in vivo		Method: OECD	nale) atic ute: Inhalation
		Test Type: don Species: Mous Application Rou Exposure time:	ute: Inhalation

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RALD	ITE® 2053-15	Α	
ersion D	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
			Print Date 12/07/2021
			.05 and 36.45 mg/L D Test Guideline 478 /e
octade	ecyl methacrylate:		
Genot	toxicity in vivo	: Application Ro Exposure time Dose: 5000 mg Method: OECE Result: negativ	: 72 h g/kg D Test Guideline 474
hexad	lecyl methacrylate:		
	toxicity in vivo	: Application Ro Exposure time Dose: 5000 mg Method: OECE Result: negativ	: 72 h g/kg ) Test Guideline 474
zinc o	xide:		
Genot	toxicity in vivo	Dose: 15, 30 a	se (male) e marrow ute: Intraperitoneal injection and 60 mg/kg bw D Test Guideline 474
	cell mutagenicity- ssment	: No data availa	ble
Carci	nogenicity		
Comp	oonents:		
Speci Applic Expos Dose: Frequ	I methacrylate: es: Rat, male and fem cation Route: Oral sure time: 2 Years 6, 60, 2000 ppm ency of Treatment: or EL: 90.3 mg/kg bw/day	nce daily	Chemica Concepts Our expertise is your solution Chemical-concepts.com 800.220.1966
Resul	t: negative		410 Pike Road • Huntingdon Valley, PA 1900
Specie Applic Expos Dose: Frequ Metho	amorphous, fumed, c es: Rat, male and ferr cation Route: Oral sure time: 103 weeks 1800 - 3200 mg/kg ency of Treatment: 7 od: OECD Test Guide	daily	

Result: negative

methacrylic acid: Species: Rat, male and female Application Route: inhalation (vapour)

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# **ARALDITE® 2053-15 A**

RALD	ITE® 2053-15 A	L Contraction of the second seco						
rsion )	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021					
Freque	ure time: 102 weeks ency of Treatment: 5 d L: >= 2.05 mg/kg body		Print Date 12/07/2021					
Metho	d: OECD Test Guidelir	ie 451						
Species: Mouse, male and female Application Route: inhalation (vapour) Exposure time: 102 weeks Dose: ca. 2.05 and 4.1 mg/L Frequency of Treatment: 5 days/week LOAEL: ca. 2.05 mg/l								
Metho	d: OECD Test Guidelir	ie 451						
zinc oxide: Species: Mouse, male and female Application Route: Oral Exposure time: 1 year Dose: 1000 and 5000 ppm Zinc Frequency of Treatment: daily NOAEL: > 22,000 mg/kg body weight								
Rema	rks: Information given i	s based on data obtai	ined from similar substances.					
Carcin Asses	ogenicity - sment	: No data available						
IARC		Group 1: Carcinog Talc (Mg3H2(SiO3						
ACGI	н	Confirmed human	carcinogen					
		Talc (Mg3H2(SiO3	9)4)					
OSHA			his product present at levels greater than or on OSHA's list of regulated carcinogens.					
NTP		Known to be huma Talc (Mg3H2(SiO3 (Silica, Crystalline	b)4)					
Repro	ductive toxicity							
metha	onents: crylic acid: s on fertility	General Toxicity 50 mg/kg body Fertility: No obs weight Symptoms: Rec	ale and female te: Oral 0, 450 mg/kg/day 7 - Parent: No observed adverse effect level:					

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ΔΡΔΙΓ	DITE® 2053-15 A	1	Enriching lives through innovation
Version 1.0	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
		GLP: yes	Print Date 12/07/2021
octad	ecyl methacrylate:	Application Rou Dose: >= 1000 Frequency of T	milligram per kilogram reatment: 7 days/week Test Guideline 422
		Application Rou Dose: 400 milli Frequency of T	gram per kilogram reatment: 7 days/week PTest Guideline 416
hexad	decyl methacrylate:	Application Rou Dose: >=1000 Frequency of T	milligram per kilogram reatment: 7 days/week PTest Guideline 422
		Application Rou Frequency of T	reatment: 7 days/week Test Guideline 416
zinc c	oxide:	Species: Rat, n Application Rou Dose: 7.5/15/3 General Toxicit level: 7.5 mg/kg General Toxicit mg/kg body we Method: OECD	0 mg/kg bw/day y - Parent: Lowest observed adverse effect g body weight y F1: No observed adverse effect level: 15 ight Test Guideline 416 mation given is based on data obtained from
meth Effec	ponents: yl methacrylate: ts on foetal opment	8,300 mg/m <sup>3</sup> Embryo-foetal t concentration F	1178 ppm No observed adverse effect concentration F1: coxicity: No observed adverse effect F1: 8,300 mg/m <sup>3</sup> Test Guideline 414

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# ARALDITE® 2053-15 A

/ersion .0	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
silica,	amorphous, fumed, c	Species: Mouse Application Rou General Toxicity 1,340 mg/kg bo	ite: Oral y Maternal: No observed adverse effect level: dy weight Test Guideline 414
		1,600 mg/kg bo	ite: Oral y Maternal: No observed adverse effect level: dy weight Test Guideline 414
		1,350 mg/kg bo	y Maternal: No observed adverse effect level: dy weight Test Guideline 414
metha	acrylic acid:	Duration of Sing Frequency of T General Toxicity 200 ppm Developmental 300 ppm Embryo-foetal t concentration F Method: OECD	emale ite: Inhalation 0, 200 or 300 ppm gle Treatment: 14 d reatment: 7 days/week y Maternal: No observed adverse effect level: Toxicity: No observed adverse effect level: >= oxicity: No observed adverse effect 1: 300 ppm Test Guideline 414 cts on fertility and early embryonic
		Application Rou Dose: 50, 150, Duration of Sing Frequency of T General Toxicity 50 mg/kg body Developmental 450 mg/kg body	t, male and female Ite: Oral 450 milligram per kilogram gle Treatment: 23 d reatment: 7 days/week y Maternal: No observed adverse effect level: weight Toxicity: No observed adverse effect level F1: y weight cts on fertility and early embryonic
octad	ecyl methacrylate:	Species: Rat, m Application Rou	nale and female

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ARALDITE® 2053-15 A         Version       Revision Date:       SDS Number:       Date of fast issue: 06/03/2021         1.0       06/03/2021       Print Date 12/07.         1.00       mg/kg body weight       Print Date 12/07.         1.00       General Toxicity Maternal: No observed adverse effect lev 100 ppm       General Toxicity Maternal: No observed adverse effect lev 100 ppm.         Method: OECD Test Guideline 414       Result: No teratogenic effects       Species: Rat, male and female Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight         Method: OECD Test Guideline 422       Result: No teratogenic effects         Species: Rat, female       Application Route: Inhalation         General Toxicity Maternal: No observed adverse effect lev 100 ppm       Method: OECD Test Guideline 414         Result: No teratogenic effects       Species: Rat         Species: Rat       Application Route: Inhalation (dust/mist/fume)         Dose: 0.37/5.75 mg/m3       Duration of Single Treatment: 6 h         General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m3         Duration of Single Treatment: 16 d      <			-	Enriching lives through innovation
1.0     06/03/2021     40000011046     Date of first issue: 06/03/2021       Print Date 12/07.       1,000 mg/kg body weight     Method: OECD Test Guideline 422       Result: No teratogenic effects       Species: Rat, female       Application Route: Inhalation       General Toxicity Maternal: No observed adverse effect lev       100 ppm       Method: OECD Test Guideline 414       Result: No teratogenic effects       hexadecyl methacrylate:       Species: Rat, male and female       Application Route: Inhalation       General Toxicity Maternal: No observed adverse effect lev       1,000 mg/kg body weight       Method: OECD Test Guideline 414       Result: No teratogenic effects       Species: Rat, female       Application Route: Inhalation       General Toxicity Maternal: No observed adverse effect lev       100 mg/kg body weight       Method: OECD Test Guideline 414       Result: No teratogenic effects       zinc oxide:       Test Type: Pre-natal       Species: Rat       Application Route: Inhalation (dust/mist/fume)       Dose: 0.3/1.5/7.5 mg/m3       Duration of Single Treatment: 6 h       General Toxicity Maternal: No observed adverse effect       concentration: 1.5 mg/m3       Developmental Toxicity: No observed adverse effect       <	ARALD	ITE® 2053-15	A	
1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects hexadecyl methacrylate: Species: Rat, male and female Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Noternati: No observed adverse effect concentration: 7.5 mg/m3 Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2.2°-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity: No observed adverse effect lev 200 mg/kg body weight Developmental: No observed adverse effect level: 600 mg/kg body weight				
Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects hexadecyl methacrylate: Species: Rat, male and female Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 1000 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 7.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, female Application Route: inhalation (dust/mist/fume) Dose: 60/200600 milligram per kilogram Duration of Single Treatment: 6 h General Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity: No observed adverse effect lev 200 mg/kg body weight Developmental Toxicity: No observed adverse effect lev: 600 mg/kg body weight				Print Date 12/07/202
Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects hexadecyl methacrylate: Species: Rat, male and female Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity: No observed adverse effect lev 200 mg/kg body weight			Method: OECD	Test Guideline 422
Species: Rat, male and female Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m3 Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect level 200 mg/kg body weight			Application Ro General Toxicit 100 ppm Method: OECD	ute: Inhalation y Maternal: No observed adverse effect level: ) Test Guideline 414
Application Route: Oral General Toxicity Maternal: No observed adverse effect lev 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: No teratogenic effects Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m³ Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m³ Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect lev 200 mg/kg body weight	hexad	lecyl methacrylate:		
Application Route: Inhalation General Toxicity Maternal: No observed adverse effect lev 100 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects zinc oxide: Test Type: Pre-natal Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m3 Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m3 Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect lev 200 mg/kg body weight			Application Rou General Toxicit 1,000 mg/kg bo Method: OECD	ute: Oral by Maternal: No observed adverse effect level: bdy weight 9 Test Guideline 422
Test Type: Pre-natal         Species: Rat         Application Route: inhalation (dust/mist/fume)         Dose: 0.3/1.5/7.5 mg/m3         Duration of Single Treatment: 6 h         General Toxicity Maternal: No observed adverse effect         concentration: 1.5 mg/m3         Developmental Toxicity: No observed adverse effect         concentration: 7.5 mg/m3         Developmental Toxicity: No observed adverse effect         concentration: 7.5 mg/m3         Method: OECD Test Guideline 414         Result: No teratogenic effects         2,2'-[(4-methylphenyl)imino]bisethanol:         Test Type: Pre-natal         Species: Rat, females         Application Route: Oral         Dose: 60/200/600 milligram per kilogram         Duration of Single Treatment: 15 d         General Toxicity Maternal: No observed adverse effect level         200 mg/kg body weight         Developmental Toxicity: No observed adverse effect level			Application Ro General Toxicit 100 ppm Method: OECD	ute: Inhalation y Maternal: No observed adverse effect level: ) Test Guideline 414
Species: Rat Application Route: inhalation (dust/mist/fume) Dose: 0.3/1.5/7.5 mg/m3 Duration of Single Treatment: 6 h General Toxicity Maternal: No observed adverse effect concentration: 1.5 mg/m <sup>3</sup> Developmental Toxicity: No observed adverse effect concentration: 7.5 mg/m <sup>3</sup> Method: OECD Test Guideline 414 Result: No teratogenic effects 2,2'-[(4-methylphenyl)imino]bisethanol: Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect level: 600 mg/kg body weight	zinc o	xide:		
Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect lev 200 mg/kg body weight Developmental Toxicity: No observed adverse effect level: 600 mg/kg body weight			Species: Rat Application Rou Dose: 0.3/1.5/7 Duration of Sin General Toxicit concentration: Developmental concentration: Method: OECD	ute: inhalation (dust/mist/fume) 7.5 mg/m3 gle Treatment: 6 h ty Maternal: No observed adverse effect 1.5 mg/m <sup>3</sup> Toxicity: No observed adverse effect 7.5 mg/m <sup>3</sup> D Test Guideline 414
Test Type: Pre-natal Species: Rat, females Application Route: Oral Dose: 60/200/600 milligram per kilogram Duration of Single Treatment: 15 d General Toxicity Maternal: No observed adverse effect lev 200 mg/kg body weight Developmental Toxicity: No observed adverse effect level: 600 mg/kg body weight	2 2' [/	4 mothylphonyl)iminol	lbicathanal.	
GLP: yes Remarks: Information given is based on data obtained fror similar substances.	<i>ح</i> , <i>ح</i> -[(	тепурпенуршино	Test Type: Pre Species: Rat, fr Application Roy Dose: 60/200/6 Duration of Sin General Toxicit 200 mg/kg bod Developmental 600 mg/kg bod Method: OECD GLP: yes Remarks: Infor	emales ute: Oral 500 milligram per kilogram gle Treatment: 15 d ty Maternal: No observed adverse effect level: y weight Toxicity: No observed adverse effect level: >= y weight Test Guideline 414 mation given is based on data obtained from
Reproductive toxicity - : No data available Assessment		•	: No data availal	ble

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Version Revision Date: 1.0 06/03/2021

SDS Number: 400000011046

Date of last issue: -Date of first issue: 06/03/2021

Print Date 12/07/2021

#### STOT - single exposure

#### Components:

methyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

methacrylic acid: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

octadecyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

hexadecyl methacrylate: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

#### Components:

methyl methacrylate: Species: Rat, male and female NOAEL: 124.1 mg/kg Application Route: oral (drinking water) Exposure time: 2 years Number of exposures: daily Dose: 6, 60, 2000 ppm

silica, amorphous, fumed, crystalline free: Species: Rat, male and female NOAEL: 7950 - 8980 mg/kg Application Route: Ingestion Exposure time: 4,320 h Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOEC: 4000 - 4500 mg/m3 Application Route: Ingestion

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# **ARALDITE® 2053-15 A**

06/03/2021

Version 1.0

Revision Date: SDS Number: 40000011046

Date of last issue: -Date of first issue: 06/03/2021

Print Date 12/07/2021

Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 7 d Method: OECD Test Guideline 413

methacrylic acid: Species: Rat, male and female NOEC: 352 - 1232 mg/m3 Application Route: inhalation (vapour) Test atmosphere: vapour Exposure time: 90 d Number of exposures: 6 h Dose: 70/352/1232 mg/m3 Subsequent observation period: 5 days/week Method: OECD Test Guideline 413 GLP: yes

octadecyl methacrylate: Species: Rat. male and female NOAEL: 1000 mg/kg Application Route: Ingestion Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOAEL: 120 mg/kg **Application Route: Ingestion** Exposure time: 2,160 h Number of exposures: 7 d Method: Subchronic toxicity

hexadecyl methacrylate: Species: Rat, male and female NOAEL: 1000 mg/kg Application Route: Ingestion Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOAEL: 120 mg/kg Application Route: Ingestion Exposure time: 2,160 h Number of exposures: 7 d Method: Subchronic toxicity

zinc oxide: Species: Mouse, male and female NOEL: 3000 ppm **Application Route: Ingestion** Exposure time: 13 Weeks Number of exposures: 7 d Method: Subchronic toxicity



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# ARALDITE® 2053-15 A

Version	Revision Date:
1.0	06/03/2021

SDS Number: 400000011046

Date of first issue: 06/03/2021 Print Date 12/07/2021

Date of last issue: -

Remarks: Information given is based on data obtained from similar substances.

Species: Rat, male Application Route: inhalation (dust/mist/fume) Exposure time: 13 weeks 6 h Number of exposures: 5 days/week Dose: 0.3, 1.5 and 4.5 mg/m3 Method: OECD Test Guideline 413 GLP: yes

Species: Rat, male and female LOAEL: 75 mg/kg Application Route: Dermal Exposure time: 28 days 6 h Number of exposures: 5 days/week Dose: 0, 75, 180, and 360 mg/kg bw/d

2,2'-[(4-methylphenyl)imino]bisethanol: Species: Rat, male and female NOAEL: 100 mg/kg Application Route: Oral Exposure time: 28 d Number of exposures: daily Dose: 100/300/600/1000 mg/kg bw/day Method: OECD Test Guideline 407 GLP: yes Remarks: Information given is based on data obtained from similar substances.

Repeated dose toxicity -Assessment : No data available

#### Aspiration toxicity

No data available

#### Experience with human exposure

General Information:	No data available
Inhalation:	No data available
Skin contact:	No data available
Eye contact:	No data available
Ingestion:	No data available

### Toxicology, Metabolism, Distribution

No data available

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Date of last issue: -

Date of first issue: 06/03/2021

# **ARALDITE® 2053-15 A**

Version 1.0 Revision Date: 06/03/2021

SDS Number: 400000011046

Print Date 12/07/2021

# Neurological effects

No data available

#### **Further information**

Product:

Remarks: Solvents may degrease the skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Components:	
methyl methacrylate: Toxicity to fish	: LC50: 191 mg/l Exposure time: 96 h
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l Exposure time: 96 h Test Type: flow-through test Method: Fish Early-life Stage Toxicity Test
silica, amorphous, fumed, crys Toxicity to fish	<ul> <li>talline free:</li> <li>LL50 (Brachydanio rerio (zebrafish)): &gt; 10,000 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202</li> </ul>
methacrylic acid: Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: Fish Acute Toxicity Test GLP: yes Remarks: Toxic to aquatic organisms.</li> </ul>
calcium carbonate: Toxicity to fish	: LC50: > 56,000 mg/l Exposure time: 96 h
Talc (Mg3H2(SiO3)4): Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 24 h
2,2'-[(4-methylphenyl)imino]bis Toxicity to fish	<ul> <li>sethanol:</li> <li>LC50 (Cyprinus carpio (Carp)): &gt; 100 mg/l</li> <li>End point: mortality</li> <li>Exposure time: 96 h</li> <li>Test Type: static test</li> <li>Analytical monitoring: yes</li> </ul>

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rsion	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
	00/00/2021	+00000011040	Print Date 12/07/2
		Method: O GLP: yes	ance: Fresh water ECD Test Guideline 203 Based on data from similar materials
-			
methy Toxici	oonents: /I methacrylate: ity to daphnia and othe ic invertebrates	r : EC50: 69 r Exposure t	
Toxic	amorphous, fumed, cr ity to daphnia and othe ic invertebrates	r : EL50 (Dap Exposure t Test Type: Test substa	
Toxic	acrylic acid: ity to daphnia and othe ic invertebrates	End point: Exposure t Test Type: Analytical r Test substa	ohnia magna (Water flea)): > 130 mg/l Immobilization ime: 48 h flow-through test monitoring: yes ance: Fresh water quatic Invertebrate Acute Toxicity Test, Freshwat
	4-methylphenyl)imino]t		
	ity to daphnia and othe ic invertebrates	End point: Exposure t Test Type: Analytical r Test substa Method: O GLP: yes	static test nonitoring: yes ance: Fresh water ECD Test Guideline 202 nformation given is based on data obtained from
<u>Comp</u>	oonents:		
	/l methacrylate: ity to algae/aquatic	: EC50: > 11 Exposure t	
	amorphous, fumed, cr ity to algae/aquatic	: EL50 (Des mg/l Exposure t Test Type: Test substa	
	acrylic acid: ity to algae/aquatic	· ErC50 (Sel	enastrum capricornutum (green algae)): 45 mg/l

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plants       Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes         NOEC (Selenastrum capricomutum (green algae)): 8.2 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes         2.2*[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants       : ECSO (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes         2.2*[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants       : ECSO (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes Remarks: Based on data from similar materials         NOEC (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes Remarks: Based on data from similar materials         Components: methacrylic acid: Toxicity       : NOEC (Brachydanio rerio (zebrafish)): 10 mg/l Exposure time: 35 d Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 210 GLP: yes         Components: methyl methacrylate: Toxicity to daphnia and other aquatic invertebrates       : NOEC (Daphnia magna (Water flea)): 37 mg/l exposure time: 21 d	ersion .0	Revision Date: 06/03/2021	SDS Number: 400000011046	Date of last issue: - Date of first issue: 06/03/2021
Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity to algae/aquatic plants 2.2'-[(4-methylphenyl)imino]bisethanol: Toxicity organization of the static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes Remarks: Based on data from similar materials NOEC (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes Remarks: Based on data from similar materials 2.100 contents: 2.100 coxide: M-Factor (Acute aquatic toxicity) 2.10 mg/l Exposure time: 35 d Test Type: Tow-through test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 210 GLP: yes 7.200 GLP: yes 7.200 GLP: yes 7.200 GLP: yes 7.200 GLP: yes 7.200 Test Guideline 210 GLP: yes 7.200 GLP: yes 7.200 GLP: yes 7.200 Test Guideline 210 GLP: yes 7.200 GLP: yes 7.200 GLP: yes 7.200 Test Guideline 210 GLP: yes 7.200 GLP: yes 7.200 Test Guideline 210 GLP: yes 7.200 Test Guideline 210 7.200 Test Guideline 2	plants		Test Type: st Analytical mo Test substand Method: OEC	atic test nitoring: yes ce: Fresh water
Toxicity to algae/aquatic plants       : EC50 (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l         Exposure time: 72 h       Test Type: static test         Analytical monitoring: yes       Test Type: static test         Analytical monitoring: yes       Test Substance: Fresh water         Method: OECD Test Guideline 201       GLP: yes         Remarks: Based on data from similar materials       NOEC (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l         Exposure time: 72 h       Test Type: static test         Analytical monitoring: yes       Test substance: Fresh water         Method: OECD Test Guideline 201       GLP: yes         Remarks: Based on data from similar materials       Components:         zinc oxide:       1         M-Factor (Acute aquatic toxicity)       : 1         Exposure time: 35 d       Test Type: flow-through test         Analytical monitoring: yes       Test substance: Fresh water         Method: OECD Test Guideline 210       GLP: yes         Components:       methyl methacrylate:         Toxicity to daphnia and other       : NOEC (Daphnia magna (Water flea)): 37 mg/l </td <td></td> <td></td> <td>Exposure tim Test Type: st Analytical mo Test substan Method: OEC</td> <td>e: 72 h atic test mitoring: yes ce: Fresh water</td>			Exposure tim Test Type: st Analytical mo Test substan Method: OEC	e: 72 h atic test mitoring: yes ce: Fresh water
mg/l         Exposure time: 72 h         Test Type: static test         Analytical monitoring: yes         Test substance: Fresh water         Method: OECD Test Guideline 201         GLP: yes         Remarks: Based on data from similar materials         Components:         zinc oxide:         M-Factor (Acute aquatic       : 1         toxicity)         Components:         methacrylic acid:         Toxicity to fish (Chronic       : NOEC (Brachydanio rerio (zebrafish)): 10 mg/l         toxicity)       Exposure time: 35 d         Test Type: flow-through test         Analytical monitoring: yes         Test substance: Fresh water         Method: OECD Test Guideline 210         GLP: yes         Components:         methyl methacrylate:         Toxicity to daphnia and other         Method: OECD Test flow): 37 mg/l	Toxicit		: EC50 (Pseud mg/l Exposure tim Test Type: st Analytical mo Test substand Method: OEC GLP: yes	e: 72 h atic test mitoring: yes ce: Fresh water CD Test Guideline 201
zinc oxide: M-Factor (Acute aquatic : 1 toxicity) Components: methacrylic acid: Toxicity to fish (Chronic : NOEC (Brachydanio rerio (zebrafish)): 10 mg/l Exposure time: 35 d Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 210 GLP: yes Components: methyl methacrylate: Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 37 mg/l			mg/l Exposure tim Test Type: st Analytical mo Test substan Method: OEC GLP: yes	e: 72 h atic test onitoring: yes ce: Fresh water CD Test Guideline 201
methacrylic acid:       Toxicity to fish (Chronic toxicity)       : NOEC (Brachydanio rerio (zebrafish)): 10 mg/l Exposure time: 35 d Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 210 GLP: yes         Components:       methyl methacrylate:         Toxicity to daphnia and other       : NOEC (Daphnia magna (Water flea)): 37 mg/l	zinc o M-Fac	kide: tor (Acute aquatic	: 1	
methyl methacrylate: Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 37 mg/l	metha Toxicit	crylic acid: y to fish (Chronic	Exposure tim Test Type: flo Analytical mo Test substand Method: OEC	e: 35 d ow-through test initoring: yes ce: Fresh water
	methyl Toxicit	methacrylate: y to daphnia and other		

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rsion )	Revision Date: 06/03/2021		OS Number: 0000011046	Date of last issue: - Date of first issue: 0	
(Chron	ic toxicity)		Test Type: flow-t Method: OECD T	hrough test Test Guideline 211	Print Date 12/07/2021
Toxicit aquatio	crylic acid: y to daphnia and other c invertebrates ic toxicity)	:	Exposure time: 2 Test Type: flow-t Analytical monito Test substance:	hrough test ring: yes	53 mg/l
zinc ox	tor (Chronic aquatic	:	1		
metha	<u>onents:</u> crylic acid: y to microorganisms	:	EC50 (Pseudome Exposure time: 1 Test Type: static Analytical monito Test substance: Method: DIN 38 4 GLP: yes	test ring: no <sup>-</sup> resh water	1
	-methylphenyl)imino]bi y to microorganisms		EC50 (activated = Exposure time: 3 Test Type: static Analytical monito Test substance: Method: OECD T GLP: yes	test ring: no Fresh water est Guideline 209 ation given is based o	on data obtained from
Toxicit organis	y to soil dwelling sms	:	No data available	)	
Plant to	oxicity	:	No data available	9	
Sedim	ent toxicity	:	No data available	)	
Toxicit organis	y to terrestrial sms	:	No data available	)	
Ecotox	icology Assessment				
-	onents:				
zinc ox Acute a	kide: aquatic toxicity	:	Very toxic to aqu	atic life.	

#### Components:



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	zinc oxi	de:			Print Date 12/0	7/2021
		aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.	
	Toxicity	Data on Soil	:	No data available		
		rganisms relevant to ironment	:	No data available		
	Persistence and degradabili					
	Compo	onents:				
		methacrylate: radability	:	Result: Readily bi Biodegradation: > Exposure time: 28	> 60 %	
		rylic acid: radability	:	Test Type: aerobi Inoculum: activate Concentration: 3 r Result: Readily bi Biodegradation: 4 Exposure time: 28 Method: OECD To GLP: yes	ed sludge mg/l odegradable. 36 %	
		methylphenyl)imino]bi radability		Test Type: aerobi Inoculum: activate Concentration: 18 Result: Not biode Biodegradation: 1 Exposure time: 28 Method: OECD Te GLP: yes	ed sludge, non-adapted mg/l gradable 1.5 %	
		nical Oxygen d (BOD)	:	No data available		
	Chemic (COD)	al Oxygen Demand	:	No data available		
	BOD/C	OD	:	No data available		
	ThOD		:	No data available		
	BOD/Th	nOD	:	No data available		
	Dissolv (DOC)	ed organic carbon	:	No data available		
	Physico remova	o-chemical bility	:	No data available		



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Stabilit	y in water	:	No data available		Print Date 12/07/2021
Photod	legradation	:	No data available		
Impact Treatm	on Sewage ent	:	No data available		
Bioaco	cumulative potential				
methyl	onents: methacrylate: umulation	:	Bioconcentration	actor (BCF): 3	
methyl	onents: methacrylate: n coefficient: n- l/water	:	log Pow: 1.38		
	crylic acid: n coefficient: n- l/water	:	log Pow: 0.93 (72 pH: 2.2	°F / 22 °C)	
	ecyl methacrylate: n coefficient: n- l/water	:	log Pow: 8.64 Method: QSAR GLP: no		
	-methylphenyl)imino]bi n coefficient: n- l/water	seth :	anol: log Pow: 2 (95 °F pH: 7 Method: OECD To		
Mobilit	ty in soil				
Mobility	Ý	:	No data available		
	ution among Imental compartments	:	No data available		
Stabilit	y in soil	:	No data available		
Other	adverse effects				
Enviror pathwa	nmental fate and ays	:	No data available		
Results assess	s of PBT and vPvB ment	:	No data available		
Endocr potenti	ine disrupting al	:	No data available		
	ed organic bound ns (AOX)	:	No data available		



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наза	rdous to the ozone lay	yer	
Ozon	e-Depletion Potential	Protection Substance Remarks: manufactu	: 40 CFR Protection of Environment; Part 82 of Stratospheric Ozone - CAA Section 602 Class I s This product neither contains, nor was red with a Class I or Class II ODS as defined by the Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
	ional ecological nation - Product	unprofessio	mental hazard cannot be excluded in the event of onal handling or disposal. aquatic life with long lasting effects.
Globa (GWF	al warming potential ?)	: No data av	ailable

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of as hazardous waste in compliance with local and national regulations.</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

ΙΑΤΑ	
UN/ID No.	: UN 1133
Proper shipping name	: Adhesives
Class	: 3
Packing group	: 11
Labels	: Flammable Liquids
Packing instruction (cargo	: 364
aircraft)	
Packing instruction	: 353
(passenger aircraft)	

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#### IMDG

UN number Proper shipping name	:	UN 1133 ADHESIVES
Class	:	3
Packing group		
Labels	:	3
EmS Code	:	F-E, S-D
Marine pollutant	:	no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

DOT Classification UN/ID/NA number Proper shipping name	: UN 1133 : ADHESIVES
Class	: 3
Packing group	: 11
Labels	: FLAMMABLE LIQUID
ERG Code	: 128
Marine pollutant	: no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components CAS-No.		Component RQ	Calculated product RQ
		(lbs)	(lbs)
methyl methacrylate	80-62-6	1000	1939
hydroquinone	123-31-9	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	<ul> <li>Flammable (gases, aerosol Respiratory or skin sensitis Skin corrosion or irritation Serious eye damage or eye Specific target organ toxicit</li> </ul>	ation e irritation	
SARA 313	: The following components established by SARA Title	•	orting levels
	methyl methacrylate	80-62-6	>= 50 - < 70 %

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		zinc oxide	1314-13-2	>= 1 - < 5 %
The f 61):	ollowing chemical(s) a	re listed as HAP under	the U.S. Clean Air Act, Section	n 112 (40 CFR
• • • • •	methyl methacry	late 80-62-6		
	, , ,			
Cali	fornia Prop. 65			
	•	an expose you to chemi	icals including Talc (Mg3H2(S	iO3)4) which
			For more information go to	(00), which
	Warnings.ca.gov.		r er mere mermaten ge te	
	0 0			
	components of this p	•	n the following inventories:	_
DSL			ntains one or several compone	ents that are not
		on the Canadia	n DSL nor NDSL.	
AIIC		: Not in complian	ce with the inventory	
			,	
NZIO	C	: Not in complian	ce with the inventory	
ENC	S	· Not in complian	ce with the inventory	
LINO		. Not in complian	ee with the inventory	
KECI		: Not in complian	ce with the inventory	
DIGG	•			
PICC	S	: Not in complian	ce with the inventory	
IECS	С	· Notified Allowe	d to be imported / manufactur	ed only by the
1200	•		e contact your Huntsman sales	
		for more inform		
TCSI		: On the inventor	y, or in compliance with the in	ventory
TSCA	N	· On or in compli	ance with the active portion of	the TSCA
1304	7		ance with the active pollion of	TIE I SCA

#### Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

# US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

inventory

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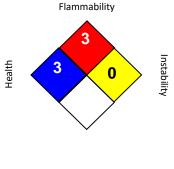
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#### **SECTION 16. OTHER INFORMATION**

# Further information

NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

Revision Date	:	06/03/2021
ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0		USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.



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Print Date 12/07/2021 THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

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SEC	SECTION 1. IDENTIFICATION						
	Product name		:	: HARDENER 2053 B			
	Manufacturer or supplier's details						
	Company name of supplier Address			<ul> <li>Huntsman Advanced Materials Americas LLC</li> <li>P.O. Box 4980 The Woodlands, TX 77387 United States of America (USA)</li> </ul>			
	Telephone		:	: Non-Emergency: (800) 257-5547			
	E-mail address of person responsible for the SDS		:	Global_Product_EHS_AdMat@huntsman.com			
	Emerge	ency telephone numbe	r:	Chemtrec: (800)	424-9300 or (703) 527-3887		
	Recommended use of the chemical and restrictions on use						
	Recommended use		:	Hardener			

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Eye irritation : Category 2A

Skin sensitisation	: Category 1 Chemica	<b>3I</b> ™
Short-term (acute) aquatic hazard	: Category 1 Concept Our expertise is your solut	
Long-term (chronic) aquatic hazard	: Category 1 chemical-concepts.co 800.220.196 410 Pike Road • Huntingdon Valley, PA 190	6
GHS label elements Hazard pictograms		
Signal word	: Warning	
Hazard statements	<ul> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements	: <b>Prevention:</b> P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling.	



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1.0	07/14/2020	P272 Contamin the workplace. P273 Avoid rel P280 Wear pro <b>Response:</b> P302 + P352 II P305 + P351 + for several min to do. Continue P333 + P313 If attention. P337 + P313 If attention. P363 Wash co P391 Collect s <b>Storage:</b> Not available <b>Disposal:</b> P501 Dispose	Print Date 12/07/2021 nated work clothing must not be allowed out of lease to the environment. otective gloves/ eye protection/ face protection. F ON SKIN: Wash with plenty of soap and water. P 938 IF IN EYES: Rinse cautiously with water butes. Remove contact lenses, if present and easy e rinsing. f skin irritation or rash occurs: Get medical advice f eye irritation persists: Get medical advice/ intaminated clothing before reuse.

### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
dibenzoyl peroxide	94-36-0	10 - 20

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

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If swallowed		:	: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.			
Most important symptoms and effects, both acute and delayed		:	None known.			
Note	es to physician	:	Treat symptomat	cally.		

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE





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	Advice on protection against fire and explosion		:	Normal measures	Print Date 12/07/2021 for preventive fire protection.
,	Advice on safe handling		:	Repeated or prolonged skin contact may cause skin irritatio and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.	
(	Conditie	ons for safe storage	:	place. Containers which kept upright to pre	ghtly closed in a dry and well-ventilated are opened must be carefully resealed and event leakage. abelled containers.
ſ	Materia	ls to avoid	:	For incompatible SDS.	materials please refer to Section 10 of this
	Recom tempera	mended storage ature	:	41 - 77 °F / 5 - 25	°C
		information on stability	:	Stable under norr	nal conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

-	-			÷ .	
Components	C	AS-No.	Value type	Control	Basis
			(Form of	parameters /	
			exposure)	Permissible	
				concentration	
dibenzoyl peroxide	94	4-36-0	TWA	5 mg/m3	ACGIH
			TWA	5 mg/m3	OSHA Z-1
			TWA	5 mg/m3	NIOSH REL
			TWA	5 mg/m3	OSHA P0
Respiratory protection : No personal respiratory protective equipment norn required.		any			
Hand protection					
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.					
Eye protection :			tle with pure wat safety goggles	er	



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		Wear face-shie problems.	Print Date 12/07/2021 eld and protective suit for abnormal processing
Skin a	and body protection		thing protection according to the amount and of the dangerous substance at the work place.
Hygiene measures		: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	black
Odour	:	characteristic
Odour Threshold	:	No data is available on the product itself.
рН	:	No data is available on the product itself.
Freezing point	:	No data is available on the product itself.
Melting point	:	No data is available on the product itself.
Boiling point	:	No data is available on the product itself.
Flash point	:	No data is available on the product itself.
Evaporation rate	:	No data is available on the product itself.
Flammability (solid, gas)	:	No data is available on the product itself.
Flammability (liquids)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	:	No data is available on the product itself.
Vapour pressure	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	No data is available on the product itself.
Density	:	1.2 g/cm3 (68 °F / 20 °C)
Solubility(ies) Water solubility	:	insoluble, immiscible
Solubility in other solvents	:	No data is available on the product itself.

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	ition coefficient: n- nol/water	: No data is ava	ailable on the product itself.
	p-ignition temperature	: No data is ava	ailable on the product itself.
The	rmal decomposition	: No data is ava	ailable on the product itself.
	Accelerating omposition temperature DT)	: 122 °F / 50 °C	
	osity iscosity, dynamic	: 83,000 mPa.s	s (77 °F / 25 °C)
Exp	losive properties	: No data is ava	ailable on the product itself.
Oxic	lizing properties	: No data is ava	ailable on the product itself.
Part	icle size	: No data is ava	ailable on the product itself.

### SECTION 10. STABILITY AND REACTIVITY

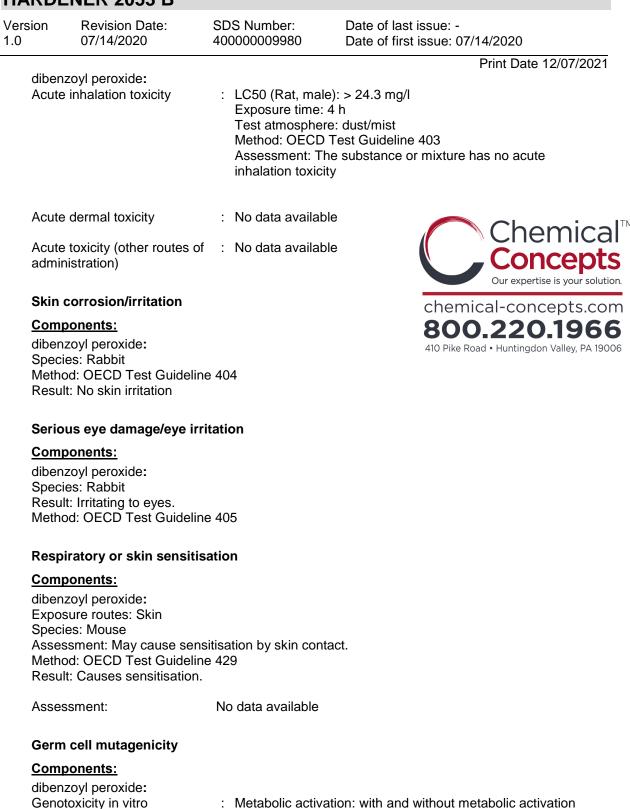
Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: No data is available on the product itself.
Acute toxicity	
<u>Components:</u> dibenzoyl peroxide: Acute oral toxicityComponents	<ul> <li>LD50 (Mouse, male and female): &gt; 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity</li> </ul>

#### **Components:**

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Method: OECD Test Guideline 476

Result: negative

### Components:



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	enzoyl peroxide: notoxicity in vivo	Dose: 0, 50, 100	te: Intraperitoneal injection 0, 200 mg/kg b.w. Test Guideline 474
	m cell mutagenicity- essment	: No data availab	le
Car	cinogenicity		
Coi	nponents:		
dibe Spe App Exp	enzoyl peroxide: ecies: Mouse, male and fe plication Route: Dermal posure time: 104 weeks sult: negative	emale	
	cinogenicity - essment	: No data availab	le
IAR	С	Group 1: Carcinog silicon dioxide (Silica dust, crysta	
AC	GIH		his product present at levels greater than or entified as a carcinogen or potential GIH.
OS	HA		his product present at levels greater than or n OSHA's list of regulated carcinogens.
NTI	5	Known to be huma silicon dioxide (Silica, Crystalline	
Rep	productive toxicity		
dibe	<b>nponents:</b> enzoyl peroxide: ects on fertility	General Toxicity 500 mg/kg body General Toxicity mg/kg body wei	te: Oral 00, 1,000 mg/kg b.w/ / - Parent: No observed adverse effect level: / weight / F1: No observed adverse effect level: 500
dibe Effe	<b>mponents:</b> enzoyl peroxide: ects on foetal elopment	: Species: Rat Dose: 100, 300	or 1000 mg/kg/day

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/ersion .0	Revision Date: 07/14/2020	SDS Number: 400000009980	Date of last issue: - Date of first issue: 07/14/2020	
		300 mg/kg boo Developmenta 300 mg/kg boo	al Toxicity: No observed adverse effect level:	
Reproo Assess	ductive toxicity - sment	: No data availa	ble	
	<b>- single exposure</b> a available	•		
	- repeated expos a available	ure		
Repea	ted dose toxicity			
dibenz Specie NOAE Applica Numbe	Components: dibenzoyl peroxide: Species: Rat, male and female NOAEL: > 100 mg/kg Application Route: Skin contact Number of exposures: 2 years Method: OECD Test Guideline 451			
Repea Assess	ted dose toxicity - sment	: No data availa	ble	
-	<b>ition toxicity</b> a available			
Experi	ence with humar	n exposure		
Genera	al Information:	No data available		
Inhalat	ion:	No data available		
Skin co	ontact:	No data available		
Eye co	ntact:	No data available		
Ingesti	on:	No data available		
	b <b>logy, Metabolisn</b> a available	n, Distribution		
Neuro	logical effects			

No data available



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#### **Further information**

Ingestion:

No data available

### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Ecoloxicity	
<u>Components:</u>	
dibenzoyl peroxide: Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0602 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203</li> </ul>
Components: dibenzoyl peroxide: Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.11 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water
	Method: OECD Test Guideline 202
Components: dibenzoyl peroxide: Toxicity to algae/aquatic plants	<ul> <li>EbC50 (Selenastrum capricornutum (green algae)): 0.0422 mg/l</li> <li>Exposure time: 72 h</li> <li>Test Type: static test</li> <li>Test substance: Fresh water</li> <li>Method: OECD Test Guideline 201</li> </ul>
Components: dibenzoyl peroxide: M-Factor (Acute aquatic toxicity) Toxicity to fish (Chronic toxicity)	: 10 : No data available
<u>Components:</u> dibenzoyl peroxide: Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC10 (Daphnia magna (Water flea)): 0.001 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211

### Components:

dibenzoyl peroxide:

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M-Fa toxic	actor (Chronic aquatic ity)	: 10	Print Date 12/07/2021
diber	ponents: nzoyl peroxide: city to microorganisms	Exposure time Test Type: sta Test substand	
	city to soil dwelling nisms	: No data availa	able
Plan	t toxicity	: No data availa	able
Sedi	ment toxicity	: No data availa	able
	city to terrestrial nisms	: No data availa	able
	oxicology Assessment e aquatic toxicity	: No data availa	able
Chro	nic aquatic toxicity	: No data availa	able
Toxic	city Data on Soil	: No data availa	able
	er organisms relevant to environment	: No data availa	able
Pers	istence and degradabil	lity	
diber	p <b>onents:</b> nzoyl peroxide: egradability	Biodegradatio Exposure time	: 4 mg/l y biodegradable. n: 68 %
	hemical Oxygen and (BOD)	: No data availa	able
Cher (COI	nical Oxygen Demand D)	: No data availa	able
BOD	/COD	: No data availa	able
ThO	D	: No data availa	able
BOD	/ThOD	: No data availa	able
Disso	olved organic carbon	: No data availa	able





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(DOC	)				Print Date 12/07/202
	co-chemical /ability	:	No data available		
Stabil	ity in water	:	No data available		
Photo	degradation	:	No data available		
Impac Treatr	et on Sewage ment	:	No data available		
	cumulative potential		N		
Bioac	cumulation	:	No data available		
diben: Partiti	oonents: zoyl peroxide: on coefficient: n- ol/water	:	log Pow: 3.2 (72 ° pH: 7.02 Method: OECD Te		
Mobil	ity in soil				
Mobili	ty	:	No data available		
diben: Distrik enviro	oonents: zoyl peroxide: oution among onmental compartments ity in soil		Koc: 6309.57 Method: OECD To No data available	est Guideline 121	
		•			
	adverse effects onmental fate and ays	:	No data available		
	ts of PBT and vPvB sment	:	No data available		
Endoo poten	crine disrupting tial	:	No data available		
	bed organic bound ens (AOX)	:	No data available		
Hazar	dous to the ozone lay	er			
Ozone	e-Depletion Potential	:	Protection of Strat Substances Remarks: This pro manufactured with		Section 602 Class I

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Additional ecological information - Product		unprofessional	Print Date 12/07/2021 tal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.
Global warming potential (GWP)		: No data availat	ble

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UN/ID No.		UN 3077		
Proper shipping name		Environmentally hazardous substance, solid, n.o.s. (DIBENZOYL PEROXIDE)		
Class	:	9		
Packing group	:	III		
Labels	:	Miscellaneous		
Packing instruction (cargo aircraft)	:	956		
Packing instruction (passenger aircraft)	:	956		
Environmentally hazardous	:	yes		
IMDG				
UN number	:	UN 3077		
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)		
Class	:	9		
Packing group	:	III		

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Label	-	: 9 : F-A, S-F	
-	EmS Code		
	e pollutant	: yes	
Trans	sport in bulk accord	ing to Annex II of M	ARPOL 73/78 and the IBC Code
Not a	pplicable for product	as supplied.	
Natio	nal Regulations		
DOT	Classification		
UN/IE	D/NA number	: UN 3077	
Prope	er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, SOLID, 'L PEROXIDE)
Class	5	: 9	,
Packi	ng group	: 111	
Label	S	: CLASS 9	
ERG	Code	: 171	
Marin	e pollutant	: yes(DIBENZ	OYL PEROXIDE)
Rema	arks	liters. Not reg	es only to containers over 119 gallons or 450 gulated if shipped in packages less than or equal is (450 liters).

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards	Respiratory or skin sensitisation Serious eye damage or eye irritation		
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:		
	dibenzoyl peroxide	94-36-0	>= 10 - < 20 %

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

### California Prop. 65

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" for carcinogenicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

The components of this product are reported in the following inventories:

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DSL		: All components of	Print Date 12/07/2021 of this product are on the Canadian DSL	
AICS		: On the inventory, or in compliance with the inventory		
NZIOC : Not in compliance with the inventory			e with the inventory	
ENCS		: Not in compliance with the inventory		
KECI		: On the inventory	, or in compliance with the inventory	
PICCS		: Not in complianc	e with the inventory	
IECSC		: On the inventory	, or in compliance with the inventory	
TCSI		: On the inventory	, or in compliance with the inventory	
TSCA		: On the inventory	, or in compliance with the inventory	

#### Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

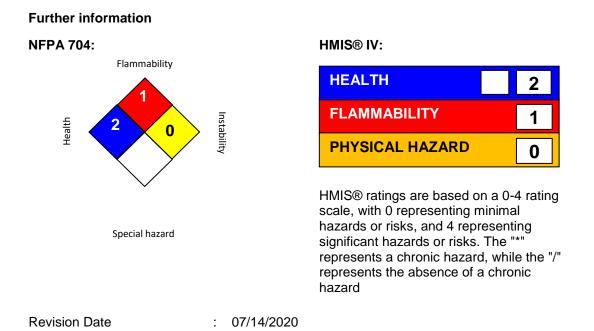
#### TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

# US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

### **SECTION 16. OTHER INFORMATION**



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ACGIH	1	:	: USA. ACGIH Threshold Limit Values (TLV)			
NIOSH	I REL	:	: USA. NIOSH Recommended Exposure Limits			
OSHA P0		:	: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000			
OSHA Z-1		:	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
ACGIH / TWA		:	8-hour, time-weighted average			
NIOSH	I REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek				
OSHA	P0/TWA	:	: 8-hour time weighted average			
OSHA	DSHA Z-1 / TWA : 8-hour time weighted average			nted average		

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