

ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

SECTION 1. IDENTIFICATION

Product name : ARALDITE® 2042 A US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

Telephone

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA)
: Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: Global Product EHS AdMat@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Component of a Polyurethane System.

SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2B

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system)

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H315 + H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing



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ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 400001012596 2.0 07/20/2021 Date of first issue: 06/13/2017

Print Date 12/27/2022

difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statements

Prevention:

P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory

protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Oxirane, methyl-, polymer with oxirane,	59675-67-1	90 - 100
ether with 1,2,3-propanetriol (3:1), polymer		
with 1,1'-methylenebis[4-		
isocyanatobenzene]		

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



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Do not leave the victim unattended.

Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

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 breathed in, move person into fresh air.

Call a physician or poison control centre immediately.

Keep patient warm and at rest. Keep respiratory tract clear.

If breathing is difficult, give oxygen.

If breathing is irregular or stopped, administer artificial

respiration.

If unconscious, place in recovery position and seek medical

advice.

Consult a physician immediately if symptoms such as

shortness of breath or asthma are observed.

A hyper-reactive response to even minimal concentrations of

diisocyanates may develop in sensitised persons.

The exposed person may need to be kept under medical

surveillance for 48 hours.

LC50 (rat): ca. 490 mg/m³ (4 hours): using experimentally produced respirable aerosol having aerodynamic diameter

<5microns.

Methods used to generate the exposure concentrations in the animal studies use extreme laboratory conditions and does not represent actual exposure conditions of the material in the workplace, storage, transportation or expected use on the market due to the very low vapor pressure. Therefore, these test results cannot be used to for hazard classification of the material. Rather, an acute toxicity estimate is calculated based on weight of evidence and expert judgement and is used to justify a modified classification for acute inhalation

toxicity.

Call a physician or poison control centre immediately.

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty

of water.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.

Call a physician if irritation develops or persists.

SDS US-AM - EN - 400001012596



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 400001012596 2.0 07/20/2021 Date of first issue: 06/13/2017

Print Date 12/27/2022

An MDI study has demonstrated that a polyglycol-based skin cleanser (such as D-Tam™, PEG-400) or corn oil may be

more effective than soap and water.

If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

Rinse immediately with plenty of water, also under the eyelids, In case of eye contact

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Protect unharmed eye.

Keep eye wide open while rinsing.

Seek medical advice.

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Gently wipe or rinse the inside of the mouth with water.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Keep respiratory tract clear.

Keep at rest.

If a person vomits when lying on his back, place him in the

recovery position.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital. If symptoms persist, call a physician.

Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

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

Severe allergic skin reactions, bronchiospasm and anaphylactic shock

This product is a respiratory irritant and potential respiratory sensitiser: repeated inhalation of vapour or aerosol at levels above the occupational exposure limit could cause respiratory sensitisation.

Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness

of chest and difficulty in breathing.

The onset of the respiratory symptoms may be delayed for

several hours after exposure.

A hyper-reactive response to even minimal concentrations of

MDI may develop in sensitised persons.

Protection of first-aiders No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

If potential for exposure exists refer to Section 8 for specific

SDS US-AM - EN - 400001012596

4/23



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

personal protective equipment.

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

Notes to physician : Symptomatic and supportive therapy as needed. Following

severe exposure medical follow-up should be monitored for at

least 48 hours.

The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at

least 48 hours.

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Foam

Carbon dioxide (CO2)

Dry powder

Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water may be used if no other available and then in copious

quantities. Reaction between water and hot isocyanate may

be vigorous.

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.

The pressure in sealed containers can increase under the

influence of heat.

Exposure to decomposition products may be a hazard to

health.

Do not allow run-off from fire fighting to enter drains or water



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 400001012596 2.0 07/20/2021 Date of first issue: 06/13/2017

Print Date 12/27/2022

courses.

Hazardous combustion products

Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN. In the event of extreme heat (>500 degrees C), aniline is suspected of

being formed.

No hazardous combustion products are known

Specific extinguishing methods

Cool containers/tanks with water spray.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information Standard procedure for chemical fires.

> Due to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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 an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas.

Use personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable

materials.

Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

Use personal protective equipment.

Ensure adequate ventilation.

Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective

equipment may intervene.

For additional precautions and advice on safe handling, see

section 7.

Never return spills in original containers for re-use.

Make sure that there is a sufficient amount of neutralizing/



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

absorbent material near the storage area.

The danger areas must be delimited and identified using

relevant warning and safety signs.

Treat recovered material as described in the section "Disposal

considerations".

For disposal considerations see section 13.

Environmental precautions

Do not allow uncontrolled discharge of product into the

environment.

Do not allow material to contaminate ground water system.

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

Local authorities should be advised if significant spillages

cannot be contained.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

Clean-up methods - small spillage

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Clean contaminated surface thoroughly.

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Neutralize small spillages with decontaminant.

The compositions of liquid decontaminants are given in

Section 16.

Remove and dispose of residues. Clean-up methods - large spillage

If the product is in its solid form:

Spilled MDI flakes should be picked up carefully.

The area should be vacuum cleaned to remove remaining

dust particles completely.

If the product is in its liquid form:

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust). Leave to react for at least 30 minutes.

Shovel into open-top drums for further decontamination.

Wash the spillage area with water. Test atmosphere for MDI vapour.

Keep in suitable, closed containers for disposal.

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



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Technical measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Local/Total ventilation : Use only with adequate ventilation.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Avoid formation of aerosol.

Do not breathe vapours or spray mist.

Do not breathe vapours/dust.

Do not swallow.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms.

Keep container closed when not in use.

Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

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.

Industrial use of aprotic polar solvents for cleaning can release hazardous primary aromatic amines (>0.1%)

Repeated or prolonged skin contact may cause skin irritation 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.

Avoid formation of aerosol. 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.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

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

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep in properly labelled containers.

Observe label precautions.



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 07/20/2021 400001012596 2.0 Date of first issue: 06/13/2017

Print Date 12/27/2022

Protect from moisture.

Electrical installations / working materials must comply with

the technological safety standards.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Keep in properly labelled containers.

Materials to avoid For incompatible materials please refer to Section 10 of this

SDS.

For incompatible materials please refer to Section 10 of this

SDS.

Recommended storage

temperature

36 - 104 °F / 2 - 40 °C

Further information on

storage stability

Stable under recommended storage conditions.

Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator

complying with an approved standard if a risk assessment

indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

In emergency, non-routine and unknown exposure situations, including confined space entries, a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied air respirator (SAR) with auxiliary self-contained air

supply, should be used.

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where

concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any

hazardous chemical is limited. Use a positive pressure air



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 400001012596 2.0 07/20/2021 Date of first issue: 06/13/2017

Print Date 12/27/2022

supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

: In the case of vapour formation use a respirator with an Respiratory protection

approved filter.

Hand protection

Remarks The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with

skin.

Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated ("EVAL"), Polychloroprene (Neoprene*), Nitrile/butadiene rubber ("nitrile" or "NBR"), Polyvinyl chloride ("PVC" or "vinyl"), Fluoroelastomer (Viton*).

When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended.

When only brief contact is expected, a glove with protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: other chemicals that may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as instructions/specifications provided by the glove supplier

By industrial use of aprotic polar solvents for cleaning: Butyl rubber (0.7mm), Nitrile rubber (0.4mm), Chloroprene (0.5mm) Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Chemical splash goggles.

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.



ARALDITE® 2042 A US

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 06/13/2017

 2.0
 07/20/2021
 400001012596
 Date of first issue: 06/13/2017

Print Date 12/27/2022

Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Ensure that eyewash stations and safety showers are close

to the workstation location. Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Recommended:

Overall (preferably heavy cotton) or Tyvek-Pro Tech 'C',

Tyvek Pro 'F' disposable coverall.

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance

at the specific workplace.

Ensure that eye flushing systems and safety showers are

located close to the working place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Wash face, hands and any exposed skin thoroughly after

handling.

Remove contaminated clothing and protective equipment

before entering eating areas.

When using do not eat, drink or smoke.

Contaminated work clothing should not be allowed out of the

workplace.

Wash hands before breaks and immediately after handling

the product.

Wash hands before breaks and at the end of workday.

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 : liquid

Colour : milky

white

Odour : slight

Odour Threshold : No data is available on the product itself.



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

pH : substance/mixture reacts with water

Melting point/freezing point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : $> 201 \, ^{\circ}\text{F} / > 94 \, ^{\circ}\text{C}$

Method: estimated, closed cup

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 : 1.14

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : Water reactive

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

Auto-ignition temperature

: No data is available on the product itself.

: No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Reactivity: No dangerous reaction known under conditions of normal use.

No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Stable under normal conditions.

Possibility of hazardous

reactions

Reaction with water (moisture) produces CO2-gas.

Exothermic reaction with materials containing active hydrogen

groups.

The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the

presence of solvents.

MDI is insoluble with, and heavier than water and sinks to the

bottom but reacts slowly at the interface.

A solid water-insoluble layer of polyurea is formed at the

interface by liberating carbon dioxide gas.

No hazards to be specially mentioned.

Conditions to avoid : Extremes of temperature and direct sunlight.

Exposure to air or moisture over prolonged periods.

None known.

Incompatible materials : Acids

Amines Bases Metals water

None known.

Hazardous decomposition

products

Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN. In the event

of extreme heat (>500 degrees C), aniline is suspected of

being formed.

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.

exposure

Acute toxicity

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]:

Acute oral : LD50 (Rat, male): > 10,000 mg/kg toxicityComponents Method: OECD Test Guideline 401



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 400001012596 2.0 07/20/2021 Date of first issue: 06/13/2017

Print Date 12/27/2022

Remarks: Information given is based on data obtained from

similar substances.

Acute inhalation toxicity -Product

: Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Remarks: Methods used to generate the exposure

concentrations in the animal studies use extreme laboratory conditions and does not represent actual exposure conditions of the material in the workplace, storage, transportation or expected use on the market due to the very low vapor pressure. Therefore, these test results cannot be used to for hazard classification of the material. Rather, an acute toxicity estimate is calculated based on weight of evidence and expert judgement and is used to justify a modified classification for

acute inhalation toxicity.

Acute toxicity estimate: 1.58 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'methylenebis[4-isocyanatobenzene]:

Assessment: May cause sensitisation by inhalation and skin contact.

Germ cell mutagenicity

Components:



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]:

Genotoxicity in vitro : Concentration: 200 ug/plate

Metabolic activation: with and without metabolic activation

Method: Directive 67/548/EEC, Annex, B.13/14

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Genotoxicity in vivo : Application Route: Inhalation

Exposure time: 3 Weeks

Dose: 118 mg/m3

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Product:

Remarks: Rats have been exposed for two years to a respirable aerosol of polymeric MDI which resulted in a chronic pulmonary irritation at high concentrations. Only at the top level (6 mg/m3), there was a significant incidence of a benign tumour of the lung (adenoma) and one malignant tumour (adenocarcinoma). There were no lung tumours at 1 mg/m3 and no effects at 0.2 mg/m3. Overall, the tumour incidence, both benign and malignant, and the number of animals with the tumours were not different from controls. The increased incidence of lung tumours is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung, which occurred throughout the study. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumour formation will occur.

Remarks: Industrial use of aprotic polar solvents for cleaning can release hazardous primary aromatic amines (>0.1%)

Based on animal studies, primary aromatic amines are considered as potential carcinogen to humans. Some of those chemicals are proven carcinogens to humans

Provided the recommended personal protective equipment and hygiene measures are applied, no adverse effects to human health are to be expected

Carcinogenicity -

Assessment

: No data available

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Effects on fertility : No data available

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]:

Effects on foetal : Species: Rat, female

development Application Route: Inhalation

General Toxicity Maternal: No observed adverse effect level: 4

mg/m³

Method: OECD Test Guideline 414 Result: No teratogenic effects

Remarks: Information given is based on data obtained from

similar substances.

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Exposure routes: Inhalation
Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

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

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]: Species: Rat, male and female

NOEC: 0.2 mg/m3 Exposure time: 2 yr Number of exposures: 5 d

Method: OECD Test Guideline 453

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

Repeated dose toxicity - : No data available



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Assessment

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

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Remarks: Information given is based on data obtained from

similar substances.

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-

methylenebis[4-isocyanatobenzene]:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

aquatic invertebrates

Exposure time: 24 h Test Type: static test



ARALDITE® 2042 A US

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 06/13/2017

 2.0
 07/20/2021
 400001012596
 Date of first issue: 06/13/2017

Print Date 12/27/2022

Test substance: Fresh water Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to algae/aquatic

plants

: No data available

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): >= 10 mg/l

Exposure time: 21 d
Test Type: semi-static test

Test substance: Fresh water Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

M-Factor (Chronic aquatic

toxicity)

: No data available

Toxicity to microorganisms : No data available

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Biodegradability : Inoculum: Domestic sewage

Concentration: 30 mg/l Result: Not biodegradable Biodegradation: 0 % Exposure time: 28 d

Method: Inherent Biodegradability: Modified MITI Test (II)

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Stability in water : Degradation half life(DT50): 20 hrs (77 °F / 25 °C)

Method: No information available.

Remarks: Fresh water

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[4-isocyanatobenzene]:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 200 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: No data available

Mobility in soil

Mobility : No data available



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological information - Product

Global warming potential

(GWP)

: No data available

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Empty remaining contents. Dispose of as unused product.



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as dangerous goods

IATA-DGR

Not regulated as dangerous goods

IMDG-Code

Not regulated as dangerous goods

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

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as dangerous goods

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

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

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Respiratory or skin sensitisation

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

DSL : All components of this product are on the Canadian DSL

AIIC : On the inventory, or in compliance with the inventory



ARALDITE® 2042 A US

Version 2.0	Revision Date: 07/20/2021	SDS Number: 400001012596	Date of last issue: 06/13/2017 Date of first issue: 06/13/2017	
NZIoC		: On the inventor	Print Date 12/27/2022 y, or in compliance with the inventory	
ENCS		: On the inventory, or in compliance with the inventory		
KECI		: On the inventory, or in compliance with the inventory		
PICCS		: Not in complian	ce with the inventory	
IECSC		: On the inventor	y, or in compliance with the inventory	
TCSI		: On the inventor	y, or in compliance with the inventory	

Inventories

TSCA

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

: All substances listed as active on the TSCA inventory

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

No substances are subject to a Significant New Use Rule.

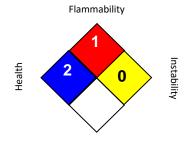
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

SECTION 16. OTHER INFORMATION

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

Liquid decontaminants (percentages by weight or volume):

Decontaminant 1 : *- sodium carbonate : 5 - 10 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %

Decontaminant 2 : *- concentrated ammonia solution : 3 - 8 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %



ARALDITE® 2042 A US

Version Revision Date: SDS Number: Date of last issue: 06/13/2017 2.0 07/20/2021 400001012596 Date of first issue: 06/13/2017

Print Date 12/27/2022

Decontaminant 1 reacts slower with diisocyanates but is more environmentally friendly than decontaminant 2

Decontaminant 2 contains ammonia. Ammonia presents health hazards. (See supplier safety information.)

Revision Date : 07/20/2021

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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.

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.

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ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

SECTION 1. IDENTIFICATION

Product name : ARALDITE® 2042 B US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

Telephone

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA)
: Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: Global Product EHS AdMat@huntsman.com

Emergency telephone number : 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)

Skin irritation : Category 2

Serious eye damage : Category 1

Short-term (acute) aquatic

hazard

: Category 1

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
limestone	1317-65-3	20 - 30
1,1'-phenyliminodipropan-2-ol	3077-13-2	5 - 10
2-ethylhexane-1,3-diol	94-96-2	5 - 10
Terphenyl, hydrogenated	61788-32-7	1 - 5
cyclohex-1,2-ylenediamine	694-83-7	1 - 5
Silicon, amorphous	7631-86-9	1 - 5
phenylmercury acetate	62-38-4	0.1 - 1
terphenyl	26140-60-3	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.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : Call a physician or poison control centre immediately.

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

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 : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

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.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically.

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



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

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.

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.

Ensure adequate ventilation.

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

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation

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.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Conditions for safe storage : 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. Keep in properly labelled containers.

Materials to avoid : For incompatible materials please refer to Section 10 of this

SDS.

Further information on

storage stability

: Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
limestone	1317-65-3	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Respirable)	5 mg/m3 (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium carbonate)	NIOSH REL
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA PO
Terphenyl, hydrogenated	61788-32-7	TWA	0.5 ppm	ACGIH
		TWA	0.5 ppm 5 mg/m3	NIOSH REL
		TWA	0.5 ppm 5 mg/m3	OSHA P0
Silicon, amorphous	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
phenylmercury acetate	62-38-4	TWA	0.1 mg/m3 (Mercury)	ACGIH
		TWA	0.05 mg/m3	NIOSH REL



ARALDITE® 2042 B US

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08/02/2017

 1.1
 01/17/2022
 400001012616
 Date of first issue: 08/02/2017

Print Date 12/27/2022

		1 1111 Date 12/21/2022		
		(Vapour)	(Mercury)	
		С	0.1 mg/m3	NIOSH REL
			(Mercury)	
		С	0.1 mg/m3	OSHA P0
			(Mercury)	
terphenyl	26140-60-3	С	1 ppm	OSHA Z-1
			9 mg/m3	
		С	5 mg/m3	ACGIH
		С	0.5 ppm	OSHA P0
			5 mg/m3	

Personal protective equipment

Respiratory protection : WARNING! This product contains quartz, which has

been classified by IARC as carcinogenic for humans (Group 1), and which can cause silicosis and lung cancer following exposure to respirable dust. It is therefore important to take

particular care to avoid inhalation exposure when mechanically processing cured material (e.g. grinding,

sanding, sawing).

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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 : Impervious clothing

Choose body protection according to the amount and

concentration 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 : liquid

Colour : red
Odour : mild

Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Melting point/freezing point : No data is available on the product itself.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Boiling point : No data is available on the product itself.

Flash point : 205 °F / 96 °C

Method: Pensky-Martens closed cup, closed cup

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 : 4.9321 hPa (203 °F / 95 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 1.3 - 1.4

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

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

Hazardous decomposition

products

No decomposition if stored and applied as directed.

carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 4,305 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 81.95 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

limestone:

Acute oral toxicity : LD50 (Rat): 6,450 mg/kg

1,1'-phenyliminodipropan-2-ol:

Acute oral toxicity : LD50 (Rat): 3,800 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

2-ethylhexane-1,3-diol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : LC50 (Rat): > 3.8 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute

inhalation toxicity



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Acute dermal toxicity : LD50 (Rabbit, male and female): 8,960 - 10,521 mg/kg

Terphenyl, hydrogenated:

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The substance or mixture has no acute dermal

toxicity

cyclohex-1,2-ylenediamine:

Acute oral toxicity : LD50 (Rat, male): 1,690 mg/kg

Method: OECD Test Guideline 401

GLP: no

Assessment: The component/mixture is moderately toxic after

single ingestion.

Remarks: Information given is based on data obtained from

similar substances.

LD50 (Rat, male and female): 1,170 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 4.9 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Remarks: Information given is based on data obtained from

similar substances.

Acute dermal toxicity : LD50 (Rat, male and female): 1,870 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The component/mixture is moderately toxic after

single contact with skin.

Silicon, amorphous:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

phenylmercury acetate:

Acute oral toxicity : LD50 Oral (Rat): 41 mg/kg

Assessment: The component/mixture is highly toxic after

single ingestion.

terphenyl:

Acute oral toxicity : LD50 (Rat, male and female): 2,604 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Components:

1,1'-phenyliminodipropan-2-ol:

Result : Mild skin irritation

2-ethylhexane-1,3-diol:

Species : Rabbit

Assessment : No skin irritation

Result : Normally reversible injuries

Terphenyl, hydrogenated:

Species : Rabbit Exposure time : 24 h

Method : Other guidelines Result : No skin irritation

cyclohex-1,2-ylenediamine:

Species : Rabbit

Assessment : Causes severe burns.

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes or less of exposure

GLP : no

Remarks : Information given is based on data obtained from similar

substances.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Silicon, amorphous:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

phenylmercury acetate:

Species : Human Result : Causes burns.

terphenyl:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Serious eye damage/eye irritation

Components:

limestone:

Species : Rabbit

Result : Mechanical irritation of the eyes is possible.

Assessment : No eye irritation

1,1'-phenyliminodipropan-2-ol:

Result : Risk of serious damage to eyes.

2-ethylhexane-1,3-diol:

Species : Rabbit

Result : Risk of serious damage to eyes.

Terphenyl, hydrogenated:

Species : Rabbit

Result : No eye irritation Method : Draize Test

GLP : no

cyclohex-1,2-ylenediamine:

Species : Rabbit

Result : Risk of serious damage to eyes.
Assessment : Risk of serious damage to eyes.

GLP : no

Remarks : Information given is based on data obtained from similar

substances.

Silicon, amorphous:

Species : Rabbit



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Result : No eye irritation
Assessment : No eve irritation

Method : OECD Test Guideline 405

phenylmercury acetate:

Species : Rabbit Result : Corrosive

terphenyl:

Species : Rabbit

Result : No eye irritation
Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitisation

Components:

limestone:

Exposure routes : Skin Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Terphenyl, hydrogenated:

Exposure routes : Skin Species : Humans

Method : Patch Test 24 Hrs.

Result : Does not cause skin sensitisation.

Assessment : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Terphenyl, hydrogenated:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 482

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Metabolic activation: with and without metabolic activation

Method: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Species: Rat

Cell type: Bone marrow

Dose: 250, 1250, 2500 mg/kg bw Method: OECD Test Guideline 475



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Result: negative

cyclohex-1,2-ylenediamine:

Genotoxicity in vitro : Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Test Type: gene mutation test Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: inhalation (dust/mist/fume)

Exposure time: 13 Weeks

Dose: 0, 1.6, 5, 16, 50, 160 mg/m3 Method: OECD Test Guideline 474

Result: negative

GLP: yes

Silicon, amorphous:

Genotoxicity in vitro : 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



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Result: negative

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

terphenyl:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium Metabolic activation: Metabolic activation Method: OECD Test Guideline 471

Result: positive GLP: yes

Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: in vivo assay

Species: Rat (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal injection

Exposure time: 6-24 h

Dose: 0, 500, 2500, 5000 mg/kg bw Method: OECD Test Guideline 475

Result: negative

GLP: yes

Carcinogenicity

Components:

Silicon, amorphous:

Species : Rat, male and female

Application Route : Oral Exposure time : 103 weeks

Dose : 1800 - 3200 mg/kg

Frequency of Treatment : 7 daily

Method : OECD Test Guideline 453

Result : negative

IARC Group 2B: Possibly carcinogenic to humans

phenylmercury acetate 62-38-4

(methylmercury compounds)



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

2-ethylhexane-1,3-diol:

Effects on foetal development

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight

Result: No teratogenic effects

Species: Rat, female Application Route: Dermal

General Toxicity Maternal: NOAEL: 1,884 mg/kg body weight

Result: Teratogenic effects

Terphenyl, hydrogenated:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Frequency of Treatment: 7 days/week

General Toxicity - Parent: NOAEL: 1,000 ppm General Toxicity F1: NOAEL: 1,000 ppm Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on foetal development

Species: Rat, female Application Route: Oral

Dose: 125, 500, 1500 mg/kg bw/d

Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 125 mg/kg body weight Embryo-foetal toxicity: NOAEL: 500 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

cyclohex-1,2-ylenediamine:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 150, 500 mg/kg b.w.

General Toxicity - Parent: NOAEL: 500 mg/kg body weight

Method: OECD Test Guideline 416

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Effects on foetal : Test Type: Pre-natal

development Species: Rat, females Application Route: Oral

Dose: 0, 112, 184, 300 mg/kg b.w Duration of Single Treatment: 10 d Frequency of Treatment: 7 days/week

General Toxicity Maternal: NOAEL: ca. 184 mg/kg body

weight

Developmental Toxicity: NOAEL: ca. 300 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Silicon, amorphous:

Effects on foetal : Species: Mouse development : Application Route: Oral

General Toxicity Maternal: NOAEL: 1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

Components:

cyclohex-1,2-ylenediamine:

Exposure routes : Inhalation
Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Components:

phenylmercury acetate:

Assessment : Causes damage to organs through prolonged or repeated

exposure.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 01/17/2022 400001012616 1.1 Date of first issue: 08/02/2017

Print Date 12/27/2022

Repeated dose toxicity

Components:

2-ethylhexane-1,3-diol:

Species Rat, male and female

LOAEL 100 mg/kg Application Route Ingestion Exposure time 696 h Number of exposures 5 d

Method Subacute toxicity

Species Rat

NOAEL 480 mg/kg Ingestion Application Route Exposure time 2.160 h

Method Subchronic toxicity

Species Rat, male and female

NOAEL 3768 mg/kg Application Route Skin contact Exposure time : 13 Weeks

Number of exposures : 5 d

Method Subchronic toxicity

Terphenyl, hydrogenated:

Species Rat, male and female

NOAEL 12 mg/kg LOAEL 120 mg/kg Application Route : oral (feed) : 14 weeks Exposure time Number of exposures : 7 days/week

: OECD Test Guideline 408 Method

Species : Rat, male and female

: 0.1 mg/l NOAEL LOAEL : 0.5 mg/l Application Route : Inhalation 90 days Exposure time

Number of exposures 6 hours/day, 5 days/week (67 n

0, 10, 100, 500 mg/m³ Dose Method **OECD Test Guideline 413**

Species Rabbit, male and female

NOAEL 2,000 mg/kg Application Route Dermal Exposure time 21 days

6 hours/day, 5 days/week Number of exposures Dose 125, 500, 2000 mg/kg bw/d

Subacute toxicity Method

Target Organs Skin

Repeated dose toxicity -

No adverse effect has been observed in chronic toxicity Assessment

tests.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

cyclohex-1,2-ylenediamine:

Species : Rat, male and female NOAEL : 581.3 - 617 mg/kg

Application Route : Oral Exposure time : 28 d Number of exposures : daily

Dose : 0, 300, 3000, 10000 ppm Method : OECD Test Guideline 407

GLP : yes

Remarks : Information given is based on data obtained from similar

substances.

Species : Rat, male and female

NOAEL : 150 mg/kg Application Route : Oral Number of exposures : daily

Dose : 0, 50, 150, and 500 mg/kg bw/d
Method : OECD Test Guideline 422

GLP : yes

Species : Rat, male and female

: 16 mg/m3

Application Route : inhalation (dust/mist/fume)

Exposure time : 13 weeks 6 h

Number of exposures : daily

Dose : 0, 1.0, 3.1, 10, 31, 100 mg/m3 Method : OECD Test Guideline 413

GLP : ves

Remarks : Information given is based on data obtained from similar

substances.

Silicon, amorphous:

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
Test atmosphere : dust/mist
Exposure time : 13 Weeks

Number of exposures : 7 d

Method : OECD Test Guideline 413

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available



ARALDITE® 2042 B US

Version SDS Number: Revision Date: Date of last issue: 08/02/2017 400001012616 1.1 01/17/2022 Date of first issue: 08/02/2017

Print Date 12/27/2022

Neurological effects No data available **Further information** No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

limestone:

Toxicity to fish : LC50: > 56,000 mg/l

Exposure time: 96 h

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 350 mg/l

Exposure time: 125 d Test Type: semi-static test Test substance: Fresh water

2-ethylhexane-1,3-diol:

LC50 (Ictalurus punctatus (channel catfish)): 624 mg/l Toxicity to fish

> Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Terphenyl, hydrogenated:

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 56 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOELR (Daphnia magna (Water flea)): < 1 mg/l

Exposure time: 21 d Test Type: semi-static test



ARALDITE® 2042 B US

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 08/02/2017

 1.1
 01/17/2022
 400001012616
 Date of first issue: 08/02/2017

Print Date 12/27/2022

Method: OECD Test Guideline 211

GLP: yes

Toxicity to microorganisms : NOEC (activated sludge): 103 mg/l

Exposure time: 3 h
Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

cyclohex-1,2-ylenediamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,825 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 19.8 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

EC50 (Daphnia magna (Water flea)): 50 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Test substance: Fresh water

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 201

GLP: ves

Remarks: Information given is based on data obtained from

similar substances.

EC10 (Pseudokirchneriella subcapitata (green algae)): 118



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

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: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 4.16 mg/l

Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 211

GLP: yes

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to microorganisms : EC10 (Pseudomonas putida): 12,500 mg/l

Exposure time: 20 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Silicon, amorphous:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 24 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EL50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

Exposure time: 72 h
Test Type: static test
Test substance: Fresh

Test substance: Fresh water Method: OECD Test Guideline 201

phenylmercury acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.009 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50: 0.006 mg/l

Exposure time: 24 h



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

M-Factor (Acute aquatic

toxicity)

: 100

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.0019 - 0.0032 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

10

terphenyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

GLP: yes

NOEC (Oncorhynchus mykiss (rainbow trout)): 10 mg/l

End point: mortality Exposure time: 96 h Test Type: static test

Test substance: Fresh water

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.022 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

GLP: yes

M-Factor (Acute aquatic

toxicity)

10

Toxicity to fish (Chronic

toxicity)

(Pimephales promelas (fathead minnow)): 0.049 mg/l

End point: mortality Exposure time: 34 d

Test Type: flow-through test Test substance: Fresh water

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

(Daphnia magna (Water flea)): 0.005 mg/L

Exposure time: 21 d

Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water

GLP: yes

M-Factor (Chronic aquatic

toxicity)

: 10



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

2-ethylhexane-1,3-diol:

Biodegradability : aerobic

Inoculum: Mixture
Concentration: 31.2 mg/l
Result: Readily biodegradable.

Biodegradation: 93 % Exposure time: 28 d

Method: OECD Test Guideline 301E

GLP: yes

cyclohex-1,2-ylenediamine:

Biodegradability : aerobic

Inoculum: Sewage (STP effluent)

Concentration: 1.1 mg/l Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Test substance: Fresh water

GLP: yes

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

aerobic

Inoculum: activated sludge, adapted

Concentration: 6.7 mg/l Result: Readily biodegradable. Biodegradation: 82 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Test substance: Fresh water

GLP: yes

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

aerobic

Inoculum: Sewage (STP effluent) Concentration: 1.13 mg/l Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301D

Test substance: Fresh water

GLP: yes

Stability in water : Method: No information available.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

GLP: No information available. Remarks: see user defined free text

Photodegradation : Rate constant: < .001

GLP: no

terphenyl:

Biodegradability : Result: Not biodegradable

Bioaccumulative potential

Components:

limestone:

Partition coefficient: n-

octanol/water

log Pow: < 1

Terphenyl, hydrogenated:

Partition coefficient: n-

octanol/water

log Pow: 6.5

cyclohex-1,2-ylenediamine:

Partition coefficient: n-

octanol/water

log Pow: < -0.9 (68 °F / 20 °C)

pH: 7

Method: OECD Test Guideline 107

GLP: yes

phenylmercury acetate:

Bioaccumulation : Bioconcentration factor (BCF): 100

Mobility in soilNo data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(phenyl mercuric acetate, Terphenyl)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction : 964

(passenger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(phenyl mercuric acetate, Terphenyl)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(phenyl mercuric acetate, Terphenyl)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171
Marine pollutant : yes

Remarks : Shipment by ground under DOT is non-regulated; however it



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

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)
phenylmercury acetate	62-38-4	100	11111

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

WARNING: This product can expose you to chemicals including phenylmercury acetate, 4-vinylcyclohexene, buta-1,3-diene, which is/are known to the State of California to cause cancer, and

phenylmercury acetate, 4-vinylcyclohexene, toluene, buta-1,3-diene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

DSL : This product contains one or several components listed in the

Canadian NDSL.

AIIC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

TCSI: Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

Inventories

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

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

No substances are subject to a Significant New Use Rule.

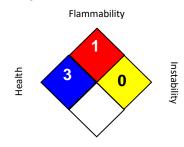
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

SECTION 16. OTHER INFORMATION

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 : 01/17/2022

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

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 / C : Ceiling limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average



ARALDITE® 2042 B US

Version Revision Date: SDS Number: Date of last issue: 08/02/2017 1.1 01/17/2022 400001012616 Date of first issue: 08/02/2017

Print Date 12/27/2022

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

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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.

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