



Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

1 Identification

· Product identifier

• Trade name: AS 201 Anti-Seize Lubricating Compound

· Relevant identified uses of the substance or mixture. Additive

Details of the supplier of the safety data sheet
Manufacturer/Supplier: Adhesive Systems, Inc.
A Division of Royal Adhesives & Sealants, LLC
9411 Corsair Road
Frankfort, Illinois 60423
Phone Number: 800-552-0299

 Information department: Environment protection department.
 Emergency telephone number: ChemTrec: Day or Night within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

· Classification of the substance or mixture

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes serious eye irritation.

- · Precautionary statements
- *Wear eye protection / face protection.*
- Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

- · Classification system:
- · NFPA ratings (scale 0 4)



Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

· HMIS-ratings (scale 0 - 4)



² Health = 2 1 *Fire* = 1 PHYSICAL HAZARD O Physical Hazard = 0

· Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture

· Hazardous components:

7440-50-8 copper

7782-42-5 Graphite

7429-90-5 Aluminium

4 First-aid measures

· Description of first aid measures

- After inhalation: Overexposure, remove to fresh air and seek medical attention.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

• Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

(Contd. of page 1)

10-25%

5-20%

2.5-10%

USA

Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

(Contd. of page 2)

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Clean the affected area carefully; suitable cleaners are:

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep container closed when not in use.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- Information about storage in one common storage facility: Store away from oxidizing agents.

Keep away from open flames and high temperatures.

- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

7440-50-8 copper			
PEL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume		
REL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume		
TLV	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu		
7782-42-5 Graphite			
PEL	Long-term value: 15 mppcf* mg/m ³ *impinger samples counted by light field techn.		
REL	Long-term value: 2.5* mg/m³ *respirable dust		
TLV	Long-term value: 2* mg/m ³ all forms except graphite fibers;*resp. fraction		
• Additional information: The lists that were valid during the creation were used as basis.			
		(Contd. on page 4)	

USA

Safety Data Sheet acc. to OSHA HCS

Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

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(Contd. of page 3)
Exposure controls
Personal protective equipment (see listings below)
General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
Breathing equipment: Not necessary if room is well-ventilated.
Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
• Material of gloves
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:
Tightly sealed goggles
Safety glasses with side shields. • Body protection: Protective work clothing

9 Physical and chemical properties

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· Information on basic physical and chemical properties					
• General Information					
· Appearance:					
Form:	Paste				
Color:	Silver grey				
• Odor:	Mild				
• Odor threshold:	Not determined.				
· pH-value:	Not applicable.				
· Change in condition					
Melting point:	Undetermined.				
Boiling.point: · Flash point:	>177 °C (>351 °F)				
· Flammability (solid, gaseous):	Not determined.				
· Ignition temperature:	400 °C (752 °F)				
· Decomposition temperature:	Not determined.				
· Auto igniting:	Product is not selfigniting.				
· Danger of explosion:	Product does not present an explosion hazard.				
· Flammable limits:					
Lower:	Not determined				
	(Contd. on page	e 5)			

Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

	(Contd. of page
Upper:	Not determined
· Vapor pressure:	Not applicable.
· Specific gravity at 20 °C (68 °F):	1.2 g/cm ³ (10.014 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
Solids content:	100.0 %
• Other information	<i>VOC content: <0.2%</i>

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Exposure to high temperatures.
- · Incompatible materials:

Reacts with oxidizing agents. Reacts with acids.

• Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrocarbons

Dense smoke

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: May irritate the skin.
- · on the eye: Mild irritant
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

(Contd. on page 6)

USA

Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

(Contd. of page 5)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation: Must be specially treated adhering to official regulations.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number		
· DOT, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
· DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
		(Contd. on page 7

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

		(Contd	l. of page 6)
· Stowage Category	Α		
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	l of Not applicable.		
· UN ''Model Regulation'':	not regulated		

15 Regulatory information

Printing Date 11/29/2016

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7440-50-8 copper

7429-90-5 Aluminium

• TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· New Jersey Right-to-Know List:

7440-50-8 copper 7782-42-5 Graphite

· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

· Pennsylvania Right-to-Know List:

7440-50-8 copper

7782-42-5 Graphite

· Pennsylvania Special Hazardous Substance List:

7440-50-8 copper

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7440-50-8 copper

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USA

Printing Date 11/29/2016

Revision Number 1

Revision Date 11/09/2016

Trade name: AS 201 Anti-Seize Lubricating Compound

(Contd. of page 7)

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· TLV (Threshold Limit Value established by ACGIH)

7429-90-5 Aluminium

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· Department issuing SDS: Environment protection department.

- · Creation Date: 11/09/2016
- · Date of preparation / last revision 11/29/2016 / -
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health
- OSHA: Occupational Safety &
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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