



Safety Data Sheet

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DELETE SILVER GRADE ANTI-SEIZE

SDS No. : 319621

V001.8

Date of issue: 05.12.2017

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: DELETE SILVER GRADE ANTI-SEIZE

Intended use: Lubricant

Supplier:

Henkel Australia Pty. Ltd.
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Skin irritation	Category 2	
Serious eye damage/eye irritation	Category 1	
Target Organ Systemic Toxicant - Repeated exposure	Category 2	Central Nervous System
Acute hazards to the aquatic environment	Category 2	
Chronic hazards to the aquatic environment	Category 2	

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H315 Causes skin irritation. H318 Causes serious eye damage. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/face protection. P280 Wear protective gloves.
Response:	P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. P314 Get medical advice/attention if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing. P391 Collect spillage.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO	64742-52-5	10- < 40 %
Graphite	7782-42-5	10- < 30 %
Calcium oxide	1305-78-8	10- < 30 %
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	10- < 30 %
Aluminium powder (stabilised)	7429-90-5	< 10 %
Stoddard solvent, <0.1% Benzene	8052-41-3	1- < 5 %
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5	< 0.4 %

Section 4. First aid measures

Ingestion:	Rinse mouth, do not induce vomiting, consult a doctor.
Skin:	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Inhalation: Move to fresh air.

First Aid facilities: Eye wash
Normal washroom facilities

Section 5. Fire fighting measures

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide.

Decomposition products in case of fire:: carbon oxides.
Irritating organic vapours.

Special protective equipment for fire-fighters: Wear protective equipment.
Wear self-contained breathing apparatus.

Section 6. Accidental release measures

Personal precautions: Danger of slipping on spilled product.
Wear impervious gloves and chemical splash goggles.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Soak up with inert absorbent.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Ensure that workrooms are adequately ventilated.

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry place.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
OIL MIST, REFINED MINERAL 64742-52-5	Mist.		5	-	-	-	-
GRAPHITE, NATURAL AND SYNTHETIC (ALL FORMS EXCEPT FIBRES) (RESPIRABLE DUST) 7782-42-5	Respirable dust.		3	-	-	-	-
CALCIUM OXIDE 1305-78-8			2	-	-	-	-
OIL MIST, REFINED MINERAL 64741-96-4	Mist.		5	-	-	-	-
ALUMINIUM (METAL DUST) 7429-90-5	Dust.		10	-	-	-	-
ALUMINIUM (WELDING FUMES) (AS AL) 7429-90-5	Welding fume.		5	-	-	-	-
ALUMINIUM, PYRO POWDERS (AS AL) 7429-90-5	Pyrophoric powder.		5	-	-	-	-
WHITE SPIRITS 8052-41-3			790	-	-	-	-

Engineering controls:	Ensure good ventilation/extraction.
Eye protection:	Wear chemical goggles.
Skin protection:	Use of protective coveralls and long sleeves is recommended. Protective gloves made of rubber.
Respiratory protection:	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance:	Silver Paste
Density:	1.25 g/cm ³
Solubility in water:	< 1.00000 g/l

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Incompatible materials:	Strong oxidizing agents. Keep away from alkalis. Alcohols.
Hazardous decomposition products:	Irritating and toxic gases or fumes may be released during a fire. Oxides of carbon.

Section 11. Toxicological information

Health Effects:

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin:

This product is irritating to the skin.

Eyes:

Contact with this product may cause severe eye damage.

Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	LD50	> 5,000 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity)
	LC50	> 5.53 mg/l	inhalation		rat	
	LD50	> 5,000 mg/kg	dermal		rabbit	
Graphite 7782-42-5	LD50	> 2,000 mg/kg	oral	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity) OECD Guideline 423 (Acute Oral toxicity)
	LD50	> 2,000 mg/kg	oral		rat	
Calcium oxide 1305-78-8	LD50	> 2,000 mg/kg	oral	4 h	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 402 (Acute Dermal Toxicity)
	LD50	> 2,500 mg/kg	dermal		rabbit	
Aluminium powder (stabilised) 7429-90-5	LD50	> 15,900 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity)
	LC50	> 5 mg/l	inhalation		rat	
Stoddard solvent, <0.1% Benzene 8052-41-3	LD50	> 5,000 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity)
	LC50	> 5.5 mg/l	inhalation		rat	
	LD50	> 3,000 mg/kg	dermal		rabbit	
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	LD50	1,265 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Graphite 7782-42-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Aluminium powder (stabilised) 7429-90-5	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Stoddard solvent, <0.1% Benzene 8052-41-3	irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Graphite 7782-42-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Calcium oxide 1305-78-8	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Aluminium powder (stabilised) 7429-90-5	not irritating		rabbit	FDA Guideline
Stoddard solvent, <0.1% Benzene 8052-41-3	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Graphite 7782-42-5	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Aluminium powder (stabilised) 7429-90-5	not sensitising	Draize Test	guinea pig	Draize Test
Stoddard solvent, <0.1% Benzene 8052-41-3	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Graphite 7782-42-5	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Calcium oxide 1305-78-8	negative negative	bacterial reverse mutation assay (e.g Ames test) mitotic recombination in Sacch. cerevisiae	with and without with and without		EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test) OECD Guideline 481 (Genetic Toxicology: Saccharomyces cerevisiae, Mitotic Recombination Assay)
Aluminium powder (stabilised) 7429-90-5	positive positive negative	in vitro mammalian cell micronucleus test in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	without without with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Aluminium powder (stabilised) 7429-90-5	negative ambiguous	oral: gavage oral: gavage		rat rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	negative	intraperitoneal		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Graphite 7782-42-5	NOAEL=813 mg/kg	oral: feed	daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	NOAEL=1,056 mg/kg	oral: gavage	28 daysdaily, 7 days/week, 28 days	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	LC50	> 1,000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5	NOELR	100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Graphite 7782-42-5	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Graphite 7782-42-5	EC50	> 5,600 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium oxide 1305-78-8	LC50	50.6 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium oxide 1305-78-8	EC50	49.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium oxide 1305-78-8	EC50	184.57 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	NOEC	48 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	EC20	229.2 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Distillates (petroleum), solvent-refined heavy naphthenic 64741-96-4	LC50	> 5,000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), solvent-refined heavy naphthenic 64741-96-4	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Aluminium powder (stabilised) 7429-90-5	NOEC	> 100 mg/l	Fish	96 h	Salmo trutta	OECD Guideline 203 (Fish, Acute Toxicity Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	LC50	2.5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	NOEC	> 0.1 - 1.4 mg/l	Fish	112 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
Stoddard solvent, <0.1% Benzene 8052-41-3	EL50	1.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	EC50	1.2 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	NOEC	0.16 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	LC50	0.3 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	EC50	0.37 mg/l	Daphnia		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	NOEC	0.011 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	EC50	0.03 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	EC 50	26 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Distillates (petroleum), hydrotreated heavy naphthenic <3%DMSO 64742-52-5		aerobic	6 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Stoddard solvent, <0.1% Benzene 8052-41-3	readily biodegradable	aerobic	> 63 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5		aerobic	1 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol 95-38-5	7.51					not specified

Section 13. Disposal considerations

- Waste disposal of product:** Dispose of in accordance with local and national regulations.
- Recommended cleanser:** Solvent naphtha
- Disposal for uncleaned package:** Collection and delivery to recycling enterprise or other registered elimination institution.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

UN no.: 3082

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidazolinderivate)
Class or division:	9
Packing group:	III
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant

Air transport IATA:

UN no.:	3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Imidazolinderivate)
Class or division:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

Section 15. Regulatory information

SUSMP Poisons Schedule None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IMDG: International Maritime Dangerous Goods code

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 15.02.2017

Disclaimer:

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