Safety Data Sheet

Issuing Date 2013-06-03 **Revision Date** 2015-08-26 **Revision Number** 3

1. Identification of the substance/preparation and of the Company/undertaking

Product Identifier

Product Type KMT - Supplies
Material Master 1022197
Product name **ASL-3GT Anti-seize compound**
Product code KV0001

Other means of identification

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use Anti seize agent. For use in industrial installations only.

Details of the Supplier of the Safety Data Sheet
Emergency Telephone Number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

NRC (National Response Center) USA, Poison Centres +1 800 222 1222
Canada, IWK Regional Poison Center +1 902 470 8161 or 1 800 565 8161

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2. Hazards Identification

Classification

Label Elements

Emergency Overview

Appearance golden brown **Physical State** solid Paste/Gel **Odor** oily

Hazards not otherwise classified (HNOC)

Other Hazards No known effects under normal use conditions.

3. Composition/Information on Ingredients

Chemical name	Formula	CAS-No	weight-%	GHS Classification
Petroleum grease/oil		64742-62-7	25 - 50	Carc. 1B (H350) L
Copper	Cu	7440-50-8	25 - 50	Aqua. Acute 1 (H400) Aqua. Cron. 3 (H412) M=1

Graphite	C	7782-42-5	10 - 25	Not classified
Silica, cristalline quartz		14808-60-7	0.1 - 1	Not classified

* The exact percentage (concentration) of composition has been withheld as a trade secret.

NOTE The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

Full text of H-Statements referred to under sections 2 and 3

H350 - May cause cancer
H400 - Very toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects

4. First aid measures

FIRST AID MEASURES

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Skin contact Wash skin with soap and water.

Inhalation Not expected. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion Do NOT induce vomiting unless directed to do so by a physician. Consult a physician.

Self-protection of the first aider Self-protection of the first aider. Wear suitable gloves.

Most important symptoms and effects, both acute and delayed

4.2. Most important symptoms and effects, both acute and delayed Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Use CO2, dry chemical or foam. Water can be used to cool and protect exposed material.

Specific hazards arising from the chemical

Protective equipment and precautions for firefighters Use personal protective equipment as required

Component Information

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Collect in closed and suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Strong oxidizing agents.

Specific use(s) For use in industrial installations only. Restricted to professional users.

8. Exposure Controls/Personal Protection

Control parameters

Chemical name	USA - ACGIH TLV	USA - OSHA PEL	USA - NIOSH IDLH	Argentina	Brazil
Copper	0.2 mg/m³ TWA (fume)	0.1 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)	100 mg/m³ IDLH (dust, fume and mist)	TWA: 0.2 mg/m³ TWA: 1 mg/m³	-
Graphite	2 mg/m³ TWA (all forms except graphite fibers, respirable fraction)	15 mg/m³ TWA (synthetic, total dust); 5 mg/m³ TWA (synthetic, respirable fraction)	1250 mg/m³ IDLH (listed under Graphite (natural))	TWA: 2 mg/m³	-
Silica, cristalline quartz	0.025 mg/m³ TWA (respirable fraction)	-	50 mg/m³ IDLH (respirable dust)	TWA: 0.05 mg/m³	-
Chemical name	**Canada - Alberta**	**Canada - British Columbia**	**Canada - Ontario**	**Canada - Quebec**	**Canada - Manitoba**
Copper	0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)	1 mg/m³ TWA (dust and mist); 0.2 mg/m³ TWA (fume)	0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)	0.2 mg/m³ TWAEV (fume); 1 mg/m³ TWAEV (dust and mist)	0.2 mg/m³ TWA (fume) 1 mg/m³ TWA (dust and mist, as Cu)
Graphite	2 mg/m³ TWA (all forms except Graphite fibres, respirable)	2 mg/m³ TWA (all forms except Graphite fibres, respirable)	2 mg/m³ TWA (except Graphite fibres, respirable)	2 mg/m³ TWAEV (containing no Asbestos and <1% Crystalline silica, except Graphite fibres, respirable dust)	2 mg/m³ TWA (all forms except Graphite fibers, respirable fraction)
Silica, cristalline quartz	0.025 mg/m³ TWA (respirable particulate)	0.025 mg/m³ TWA (respirable)	0.10 mg/m³ TWA (designated substances regulation, respirable, listed under Silica, crystalline)	0.1 mg/m³ TWAEV (respirable dust)	0.025 mg/m³ TWA (respirable fraction)
Chemical name	**Chile**	**Mexico OEL (TWA)**	**Peru**	**Uruguay**	**Venezuela**
Copper	TWA: 0.16 mg/m³ TWA: 0.8 mg/m³	0.2 mg/m³ TWA LMPE-PPT (fume, as Cu); 1 mg/m³ TWA LMPE-PPT (dust and mist, as Cu)	0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and vapor)	0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist, as Cu)	TWA: 0.2 mg/m³ TWA: 1 mg/m³
Graphite	TWA: 1.6 mg/m³	-	2 mg/m³ TWA (dust)	2 mg/m³ TWA (all forms except graphite fibers, respirable fraction)	TWA: 2 mg/m³
Silica, cristalline quartz	TWA: 0.08 mg/m³	-	0.05 mg/m³ TWA (respirable fraction)	0.025 mg/m³ TWA (respirable fraction)	TWA: 0.05 mg/m³

Chemical name	Derived No Effect Level (DNEL)	Predicted No Effect Concentration (PNEC)
Copper	-	Freshwater 7.8 µg/l, marine water 5.2 µg/l, soil 65 mg/kg dw
Graphite	1.2 mg/m³ local inhalation	-

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles).

Skin Protection Long sleeved clothing.

Hand Protection Protective gloves.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Biological standards

9.1 Information on basic physical and chemical properties

Physical State	solid Paste/Gel	**Appearance**	golden, brown
Odor	oily	**flash point**	not applicable
Specific gravity	1.2 g/cm³		

9.2. Other information

VOC Content (%) Not Applicable

Component Information

Chemical name	Mol. Weight	Water Solub.	Vap. Press.	Vap. Dens.	pH Val.	Autoign. Temp.	Evap. Rate	Boil. Temp.
Copper	63.54 g/mol	-	0 hPa at 1400 °C	-	-	-	-	2567 °C
Silica, cristalline quartz	60.08 g/mol	-	-	-	-	-	-	2230 °C
Chemical name	**Density**	**Melt. Temp.**	**Flash Point**	**Water Sol.**	**Bulk Dens.**	**Odor**	**State**	**color**
Petroleum grease/oil	0.84 - 0.94 g/cm3 at 15 °C	-	>124 °C Cleveland open cup [ASTM D56]	-	-	-	-	-
Copper	8.89 g/cm3 at 20 °C	1083 °C	-	insoluble	-	odorless	-	red
Silica, cristalline quartz	2.635 - 2.66 g/cm3 at 20 °C	1610 °C	-	insoluble	2700 kg/m³ at 20 °C	-	-	colorless; white

10. Stability and Reactivity

Reactivity

Chemical stability
Possibility of Hazardous Reactions None under normal processing.
Conditions to avoid
incompatible materials
Hazardous decomposition products None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Petroleum grease/oil	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Silica, cristalline quartz	= 500 mg/kg (Rat)	-	-

Information on toxicological effects

Chemical name	US ACGIH - Critical effects
Copper	metal fume fever (fume)
Graphite	pneumoconiosis (all forms except graphite fibers)
Silica, cristalline quartz	lung cancer; pulmonary fibrosis

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical name	ACGIH	IARC	NTP: (National Toxicity Program)	OSHA
Silica, cristalline quartz	-	-	Known Human Carcinogen (respirable size) Short-Term Studies for Which Toxicity Technical Reports Were Not Prepared Appendix	Present (respirable size)
Chemical name	**Chile**	**Argentina**	**Venezula**	**Peru**
Silica, cristalline quartz	-	A2 - Suspected human carcinogen	A2 - Alleged Carcinogen in Humans	-

Numerical measures of toxicity No data available

mg/kg mg/l

12. Ecological Information

12.1. Ecotoxicity

12.2 Persistence and degradability No information available.

12.3 Bioaccumulative potential This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.5 Results of PBT and vPvB assessment The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6 Other adverse effects None known

13. Disposal Considerations

Waste treatment methods It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Chemical name	California Hazardous Waste Status
Copper	Toxic

14. Transport Information

DOT Not regulated

Chemical name	U.S. - DOT Reportable Quantities	DOT Marine Pollutant	DOT Severe Marine

			pollutant
Copper	5000 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).); 2270 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).)	-	DOT regulated severe marine pollutant (powder)

TDG Not regulated

MEX Not regulated

IMO / IMDG Not regulated

Chemical name	IMO/IMDG - Marine Pollutants
Copper	IMDG regulated marine pollutant (Listed in the index, listed under Copper metal powder)

ICAO / IATA-DGR Not regulated

15. Regulatory Information

Chemical name	TSCA
Petroleum grease/oil	Present
Copper	Present
Graphite	Present
Silica, cristalline quartz	Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Chemical name	CAS-No	weight-%	SARA 313 - Threshold Values %
Petroleum grease/oil	64742-62-7	25 - 50	-
Copper	7440-50-8	25 - 50	-
Graphite	7782-42-5	10 - 25	-
Silica, cristalline quartz	14808-60-7	0.1 - 1	-

SARA 311/312 Hazard Categories

Acute health hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden release of pressure hazard	no
Reactive Hazard	no

Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper	Not Listed	Present	Present	Not Listed

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ

		RQs	
Copper	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)	-	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Chemical name	California - Proposition 65 - Carcinogens List	California - Proposition 65 - Developmental Toxicity	California - Proposition 65 - Reproductive Toxicity	California - 22 CCR - Toxic and Extremely Hazardous Carcinogenic Wastes
Silica, cristalline quartz	carcinogen, initial date 10/1/88 (airborne particles of respirable size)	-	-	-

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Copper	sn 0528	Present	Environmental hazard (dust and fume) Present (dust and fume)
Graphite	sn 3325 (natural)	Present (natural and synthetic, dust, exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product)	Present (synthetic)
Silica, cristalline quartz	sn 1660	Carcinogen; Extraordinarily hazardous	Present (dust)

CANADA

WHMIS Statement This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Chemical name	WHMIS Classifications of Components
Copper	Uncontrolled product according to WHMIS classification criteria
Graphite	D2A (natural); D2B (synthetic)
Silica, cristalline quartz	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS Division website.)

16. Other Information

Global Automotive Declarable Substance List Classifications

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thresholds
Copper	Declarable Substance (FI)	0.1 %
Silica, cristalline quartz	Declarable Substance (FA)	0.0 %

NFPA **Health hazard** 1 **Flammability** 2 **Instability** 0 **Physical and Chemical Hazards** -

HMIS **Health hazard** 1 **Flammability** 1 **Physical hazards** 0 **Personal precautions** X

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Revision Note No information available

Disclaimer

Kennametal urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

End of Safety Data Sheet