

MATERIAL SAFETY DATA SHEET CAT ANTI-SEIZE COMPOUND GRAPHITE BASE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME CAT ANTI-SEIZE COMPOUND GRAPHITE BASE

PART No. Chemtool, 853700, Caterpillar, 4C-5591, 4C-5592, 4C-5593

PRODUCT USE Antiseize Compound

SUPPLIER Chemtool Incorporated

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EMERGENCY TELEPHONE Rocky Mountain Poison Center

Denver, Colorado

In USA and Canada - (800) 458-5924

Outside USA and Canada - +01-303-893-1322

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*GRAPHITE	7782-42-5	40-60 %
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	10-30 %
PETROLATUM	8009-03-8	10-30 %
PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS 64742-62-7 & 64742-65-0)	Mixture	7-13 %
*SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	14808-60-7	<2 %

^{*} This chemical(s) is hazardous according to OSHA/WHIMIS criteria

COMPOSITION COMMENTS Refer to section eight for exposure limits on ingredients.

Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HEALTH HAZARDS, GENERAL Exposure to vapors generated at high temperatures may cause respiratory irritation.

SENSITIZATION No known information.

OSHA: Not regulated. See Section 11 for carcinogenicity data of ingredients. **CARCINOGENICITY**

TERATOGENICITY No known information.

SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying **HEALTH WARNINGS**

> of the skin. EYE CONTACT. Irritating. INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. INGESTION. Can cause

stomach ache and vomiting.

Inhalation. Skin and/or eye contact. Ingestion. **ROUTE OF ENTRY**

4. FIRST AID MEASURES

INHALATION Vapor inhalation under ambient conditions is normally not a problem. If overcome by

> vapor of hot product, immediately remove from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be

Important! Immediately rinse with water for at least 15 minutes. Contact physician if **EYES**

irritation persists.

SKIN Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact

physician if irritation persists.

DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. **INGESTION**

Get medical attention immediately! Never give anything by mouth to an unconscious

5. FIRE FIGHTING MEASURES

> 204 (400°F) Cd OC (Cleveland open cup). FLASH POINT (°C)

N/D FLAMMABILITY LIMIT - LOWER(%) N/D FLAMMABILITY LIMIT - UPPER(%)

Dry chemicals, sand, dolomite etc. Foam. Carbon dioxide (CO2). **EXTINGUISHING MEDIA**

SPECIAL FIRE FIGHTING

PROCEDURES

Use water spray to keep fire exposed containers cool and disperse vapors. Water

spray may be used to flush spills away from exposures.

UNUSUAL FIRE & EXPLOSION

HAZARDS

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION

PRODUCTS

Acrid smoke/fumes. Oxides of: Carbon.

FIRE

PROTECTIVE MEASURES IN CASE OF Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Minimize skin contact. PRECAUTIONS TO PROTECT THE

ENVIRONMENT

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive

land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES

Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to ching container. Piece apill area with water.

to shipping container. Rinse spill area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONSDo not reuse container. Keep lid closed when not in use. Keep away from heat,

sparks and open flame. Do not use in confined spaces without adequate ventilation

and/or respirator.

STORAGE PRECAUTIONS Keep container closed when not in use. Keep away from heat, sparks and open

flame. Store separate from strong acids and oxidizers.

STORAGE CRITERIA Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
GRAPHITE	OSHA			15 mppcf	
	ACGIH			2 mg/m3 (resp)	except graphite fibers
	NIOSH	2.5 mg/m3 (resp)			
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
PETROLEUM OILS, 150 BRIGHT STOCK (CAS NO 64742-62-7 & 64742-65-0)	SOSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	OSHA	0.3 mg/m3 (total)		0.1 mg/m3 (resp)	
	ACGIH			0.05 mg/m3 (resp)	**A2
	NIOSH	0.05 mg/m3	**Ca		

INGREDIENT COMMENTS

**ACGIH A2: Suspected Human Carcinogen.

**NIOSH Ca: Potential Occupational Carcinogen.

PROTECTIVE EQUIPMENT





ENGINEERING CONTROLSUse engineering controls to reduce air contamination to permissible exposure level.

VENTILATIONNo specific ventilation requirements noted, but forced ventilation may still be required

if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required

under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHINGWear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE Liquid.

COLOR Black.

ODOR Mild (or faint). Petroleum.

SOLUBILITY DESCRIPTION Insoluble in water.

DENSITY 1.09 **Temperature (°C)** 15.6 (60°F)

VAPOR DENSITY (air=1) > 1

EVAPORATION RATE < 1 Reference BuAc=1

pH-VALUE, CONC. SOLUTION N/A

10. STABILITY AND REACTIVITY

STABILITY Normally stable.

CONDITIONS TO AVOID Avoid contact with acids. Strong oxidizing agents.

HAZARDOUS POLYMERIZATION Will not occur.

POLYMERIZATION DESCRIPTION Not applicable

HAZARDOUS DECOMPOSITION

PRODUCTS

Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION No experimental toxicological data on the preparation as such is available.

COMPONENT GRAPHITE

TOXIC DOSE - LD 50 N/A.
TOXIC CONC. - LC 50 N/A.

CARCINOGENICITY OSHA: Not regulated. NTP: Not listed. IARC: Not listed as a Group 1, 2A, or 2B

agent.

COMPONENT DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC

TOXIC DOSE - LD 50 > 5000 mg/kg (oral rat) **TOXIC DOSE - LD 50 SKIN** > 2000 mg/kg (skn rbt)

TOXIC CONC. - LC 50 N/A

CARCINOGENICITY The petroleum base oil contained in this product has been highly refined to

remove aromatics and improve performance characteristics. The base oil is not

listed as a carcinogen by NTP, IARC, or OSHA.

COMPONENT PETROLATUM

TOXIC DOSE - LD 50 > 2000 (estimated) mg/kg (oral rat) > 2000 (estimated) mg/kg (skn rbt)

TOXIC CONC. - LC 50 N/A

CARCINOGENICITY The supplier states that product has no carcinogenic effects known in humans,

nor would any be expected.

COMPONENT SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)

TOXICOLOGICAL DATA Carcinogenicity. WHMIS D2A > 0.1%

Chronic toxicity. WHMIS D2A > 1.0%

TOXIC DOSE - LD 50 N/A.
TOXIC CONC. - LC 50 N/A.

CARCINOGENICITY OSHA: Not regulated. IARC Group 1 designation: The agent is carcinogenic to

humans with sufficient evidence in humans. NTP-K designation: Known to be a

carcinogen with sufficient evidence from studies in humans.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Spilled material, unused contents and empty containers must be disposed of in

accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS Not regulated.

TDGR CLASS Not Regulated. Non réglementé.

SEA TRANSPORT NOTES

Not regulated per IMDG.

AIR TRANSPORT NOTES

Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
GRAPHITE	No	No	No
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	No	No	No
PETROLATUM	No	No	No
PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS 64742-62-7 & 64742-65-0)	No	No	No
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	No	No	No

CLEAN AIR ACT

SARA HAZARD CATEGORIES Chronic

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
SILICA CRYSTALLINE (COMMON NAME: OLIARTZ)	C						

STATE REGULATORY STATUS

PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required: Crystalline silica, cancer hazard, CAS# 14808-60-7

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

LABEL(S) FOR SUPPLY



CONTROLLED PRODUCT CLASSIFICATION

D2A - Chronic Very Toxic Material

Risk phrases R-49 May cause cancer by inhalation.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
PETROLATUM	DSL	Yes	EINECS	Yes	Yes	Yes	No	Yes
PETROLEUM OILS, 150 BRIGHT STOCK (CAS NOS	SDSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
64742-62-7 & 64742-65-0)								
SILICA, CRYSTALLINE (COMMON NAME: QUARTZ)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
DISTILLATES, PETROLEUM, HYDROTREATED	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
HEAVY NAPHTHENIC								
GRAPHITE	DSL	Yes	EINECS	Yes	No	Yes	Yes	Yes

All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY Burns only if pre-heated (1) - HMIS/NFPA

REACTIVITY Normally Stable (0) - HMIS/NFPA

PERSONAL PROTECTION INDEX B - Safety Eyewear and Gloves

REVISION COMMENTS Section 15: US Regulatory Status.

PREPARED BY

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Replacement MSDS of 2005-11-11

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DISCLAIMER While the information and recommendations set forth herein are believed to be

accurate as of the date thereof, the company makes no warranty with respect thereto

and disclaims all liability from reliance therein.

^{*} Information revised since previous MSDS version