



MATERIAL SAFETY DATA SHEET

CAT LIQUID GASKET-A

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	CAT LIQUID GASKET-A
PART No.	Chemtool, 843100, Caterpillar, 9U-5839, 138-8436, 3-0029432
PRODUCT USE	Gasket Sealer
SUPPLIER	Chemtool Incorporated P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
EMERGENCY TELEPHONE	Rocky Mountain Poison Center Denver, Colorado In USA and Canada - (800) 458-5924 Outside USA and Canada - +01-303-893-1322
*Date of last issue	2008-10-08

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*ACETONE	67-64-1	70-90 %
2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE	9003-18-3	10-30 %
*IRON OXIDE (Fe ₂ O ₃)	1309-37-1	1-3 %
*DIPHENYLAMINE	122-39-4	<0.2

* 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, SARA, state or federal agencies are treated confidentially.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Highly flammable liquid. Irritating to eyes. Repeated exposure may cause skin

	dryness or cracking. Vapours may cause drowsiness and dizziness.
SENSITIZATION	No known information.
CARCINOGENICITY	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.
TERATOGENICITY	No known information.
HEALTH WARNINGS	INHALATION. The solvent vapors are harmful and will cause headache, nausea and intoxication. SKIN CONTACT. Irritating. Repeated or prolonged contact can result in drying of the skin. The product/chemical has a defatting effect on the skin. EYE CONTACT. Strongly irritating. INGESTION. Can cause stomach ache and vomiting.
ROUTE OF ENTRY	Skin and/or eye contact. Skin absorption.

4. FIRST AID MEASURES

INHALATION	Remove victim immediately from source of exposure. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If breathing stops, provide artificial respiration. Get medical attention.
EYES	Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.
SKIN	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
INGESTION	DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	-20 (-4 F) TCC (Tag closed cup).
FLAMMABILITY LIMIT - LOWER(%)	2.2
FLAMMABILITY LIMIT - UPPER(%)	13.0
EXTINGUISHING MEDIA	Carbon dioxide (CO ₂). Dry chemicals, sand, dolomite etc. Alcohol resistant foam.
SPECIAL FIRE FIGHTING PROCEDURES	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Use special protective clothing. Regular protection may not be safe. Prevent inhalation of fumes and gases.
UNUSUAL FIRE & EXPLOSION HAZARDS	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon. Nitrogen.
PROTECTIVE MEASURES IN CASE OF FIRE	Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.
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	Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Use appropriate protective clothing. Rinse area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place. Containers to be kept tightly closed. Do not use in confined spaces without adequate ventilation and/or respirator.
STORAGE PRECAUTIONS	Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers. Store in accordance with local regulations.
STORAGE CRITERIA	Flammable liquid storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
ACETONE	OSHA	1000 ppm	N/E	2400 mg/m ³	
	ACGIH	500 ppm	750 ppm	1188 mg/m ³	1782 mg/m ³
	NIOSH	250 ppm	N/E		
IRON OXIDE (Fe ₂ O ₃)	OSHA			10 mg/m ³ (fume)	
	ACGIH			5 mg/m ³ as Fe	(dust & fume)

PROTECTIVE EQUIPMENT



ENGINEERING CONTROLS	Use engineering controls to reduce air contamination to permissible exposure level.
VENTILATION	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
RESPIRATORS	Respiratory protection must be used if air concentration exceeds acceptable level.
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 CLOTHING	Wear 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	Red.		
ODOR	Solvent.		
SOLUBILITY DESCRIPTION	Slightly soluble in water.		
BOILING POINT (°C, range)	56 (133°F)	Pressure	760mmHg
DENSITY	0.8	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	> 1.0		
VAPOR PRESSURE	N/D	Temperature (°C)	
EVAPORATION RATE	< 1.0	Reference	BuAc=1
pH-VALUE, CONC. SOLUTION	N/A		

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition. Avoid contact with oxidizers or reducing agents.
HAZARDOUS POLYMERIZATION	Will not polymerize.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon. Nitrogen.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT	ACETONE
TOXICOLOGICAL DATA	Irritating effects. WHMIS (Canada) Eye. D2B - R36
TOXIC DOSE - LD 50	5800 mg/kg (oral rat)
TOXIC DOSE - LD 50	20000 mg/kg (oral rat)
TOXIC CONC. - LC 50	120 mg/l (inh-rat)
COMPONENT	2-PROPENITRILE, POLYMER WITH 1,3-BUTADIENE
TOXIC DOSE - LD 50	No Information Available (NIA).
TOXIC CONC. - LC 50	No Information Available (NIA).

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION No data on possible environmental effects have been found.

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 PROPER SHIPPING NAME Acetone
DOT HAZARD CLASS 3
IDENTIFICATION No. UN1090
PACKING GROUP II
REPORTABLE QUANTITY (RQ) 5,882 pounds due to ACETONE.
LABEL FOR TRANSPORT



UN No. SEA UN1090
IMDG CLASS 3
IMDG PACK GR. II
SEA TRANSPORT NOTES acetone
UN No., AIR UN1090
ICAO CLASS 3
AIR PACK GR. II
AIR TRANSPORT NOTES acetone

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
ACETONE	No	5 000 lbs	No
2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE	No	No	No
IRON OXIDE (Fe ₂ O ₃)	No	No	No
DIPHENYLAMINE	No	No	Yes

See Section 2 for Additional Information

CLEAN AIR ACT

SARA HAZARD CATEGORIES Acute Chronic Fire

US STATE REGULATIONS

STATE REGULATORY STATUS** CALIFORNIA PROPOSITION 65: This product **DOES NOT***** contain chemicals 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.

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 B2 - Flammable Liquids
D2B - Chronic Toxic Material

Risk phrases R-11 Highly flammable.
R-36 Irritating to eyes.
R-66 Repeated exposure may cause skin dryness or cracking.
R-67 Vapours may cause drowsiness and dizziness.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
ACETONE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE	DSL	Yes	Polymer	No	No	No	No	No
IRON OXIDE (Fe ₂ O ₃)	DSL	Yes	EINECS	No	Yes	Yes	Yes	No
DIPHENYLAMINE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

COMPONENT **TSCA 12(b) Export Notification**
DIPHENYLAMINE Yes

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).
TSCA 12(b) NOTICE: This product contains one or more components that require reporting under TSCA Section 12(b) when exported. This product may be subject to US EPA requirement for one-time export notification per country. Contact the Regulatory Compliance Manager for more information.

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Ignites easily (3) - HMIS/NFPA
REACTIVITY	Normally Stable (0) - HMIS/NFPA
PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
*REVISION COMMENTS	Section 1: Name Change
PREPARED BY	John Dingess James P. McBriarty
Replacement of MSDS generated	2006-09-21
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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