



MOMENTIVE
performance materials

Material Safety Data Sheet



Version: 3.3
05/11/2009

**IGS3723B -5GP Pail (20l-20.43kg)
SILICONE RUBBER CURING AGENT B (Black)**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 05/11/2009
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Crosslinking Agent
Formula: Mixture

HMIS
Flammability: 2 Reactivity: 1 Health: 3

NFPA
Flammability: 2 Reactivity: 1 Health: 3

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! CORROSIVE Harmful if absorbed through the skin. May cause adverse liver, kidney, and CNS effects. Harmful or fatal if swallowed or inhaled. Causes eye burns. May cause adverse reproductive effects. Adverse reproductive effects reported in animals.

Form: solid **Color:** black **Odor:** amine-like

POTENTIAL HEALTH EFFECTS

INGESTION

Liver and kidney injuries may occur. May be fatal if swallowed. Harmful if swallowed. Causes vomiting, nausea, and diarrhea. Irritation of the mouth, throat, and stomach.

SKIN

Harmful if absorbed through the skin. Skin absorption may cause kidney damage. May cause skin irritation.

INHALATION

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Harmful if inhaled. Causes irritation of the mouth, nose, and throat. May cause damage to nasal and respiratory passages.

EYES

Causes severe eye irritation may damage tissue. May cause permanent eye damage. May cause corneal injury.

MEDICAL CONDITIONS AGGRAVATED

Respiratory disorder Pre-existing liver or kidney disorders. Skin disorders.



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SUBCHRONIC (TARGET ORGAN)

Respiratory disorder; Dermatitis; Liver and kidney damage.

CHRONIC EFFECTS / CARCINOGENICITY

This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE

Inhalation; Dermal; Eyes

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
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A. HAZARDOUS

tetra-n-propyl orthosilicate	682-01-9	10 - 30 %
DIBUTYL TINOXIDE	818-08-6	0.1 - 1 %
gamma-Aminopropyltriethoxysilane	919-30-2	10 - 30 %

B. NON-HAZARDOUS

Polydimethylsiloxane	63148-62-9	60 - 100 %
Carbon Black	1333-86-4	5 - 10 %

4. FIRST AID MEASURES

INGESTION

Get medical attention immediately. Do not induce vomiting as the substance contains volatile chemicals. Vomiting may increase risk.

SKIN

Wash skin thoroughly with soap and water for at least 15 minutes.

INHALATION

Call a physician immediately.

EYES

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



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NOTE TO PHYSICIAN

This product is a corrosive material. Gastric lavage or emesis may be contraindicated. Ingestion or inhalation may result in shock, decreased blood pressure, pulmonary edema, CNS depression, edema of the glottis with asphyxia, and perforation of the esophagus or stomach. Inhalation of vapors or fumes may result in coughing, choking, and CNS effects followed after a 6-8 hour latent period by pulmonary edema with tightness in the chest, air hunger, dizziness, frothy sputum, and cyanosis. Physical findings may include moist rales, low blood pressure, and high pulse pressure. Hemoptysis and dyspnea may continue for several weeks. Prednisolone may reduce esophageal stricture formation.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	> 63 °C; 145 °F
METHOD:	closed cup
IGNITION TEMPERATURE:	Unknown
FLAMMABLE LIMITS IN AIR - LOWER (%):	not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%):	not applicable

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is expected; material has a flash point below 200 F.

EXTINGUISHING MEDIA

Foam, Carbon dioxide (CO₂), Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES

Corrosive material., Evacuate area and fight fire from a safe distance., Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Warn other workers of spill. Increase area ventilation. Person not trained should evacuate area.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Danger! Corrosive. Avoid contact with skin, eyes and clothing. Good hygienic practices should be



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observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Use only in well-ventilated areas. Keep away from children. Attention: Not for injection into humans.

STORAGE

Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials. Store in original container. Store away from heat, sources of ignition, and incompatibles.

FURTHER INFORMATION ON STORAGE CONDITIONS

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use only in well-ventilated areas.; Eyewash stations; Showers; Exhaust ventilation

RESPIRATORY PROTECTION

Use only in well-ventilated areas.

PROTECTIVE GLOVES

Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Monogoggles

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	>200 °C; 392 °F
VAPOR PRESSURE (20 C) (MM HG):	not applicable
VAPOR DENSITY (AIR=1):	no data available
FREEZING POINT:	ca. -29.00 °C; -20 °F



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PHYSICAL STATE:	solid
ODOR:	amine-like
COLOR:	black
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
SPECIFIC GRAVITY (WATER=1):	ca. 1.00
DENSITY:	ca. 1.00 g/cm ³
ACID / ALKALINITY (MEQ/G):	not applicable
pH:	not applicable
VOLATILE ORGANIC CONTENT (VOL):	22.5 %(m)
SOLUBILITY IN WATER (20 C):	Slowly Reacts
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Hexanes
VOC EXCL. H ₂ O & EXEMPTS (G/L):	225

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION

Will not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); formaldehyde; Amines; Carbon monoxide; Silicon dioxide.; nitrogen oxides (NO_x); Ethanol.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBILITY (MATERIALS TO AVOID)

Reacts with water forming ethanol. Avoid contact with acids, bases, or oxidizing agents.

CONDITIONS TO AVOID

Avoid any source of ignition due to flammability. Keep away from any contact with water.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: Unknown

ACUTE DERMAL

Remarks: Unknown

ACUTE INHALATION

Remarks: Unknown



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OTHER

Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

SENSITIZATION

no data available

SKIN IRRITATION

Species: rabbit; Result: Not irritant. Method: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion).
Test results are based on analogy with a similar material.

EYE IRRITATION

no data available

MUTAGENICITY

Unknown

OTHER EFFECTS OF OVEREXPOSURE

Product releases amine vapors during cure.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

no data available

DISTRIBUTION

no data available

CHEMICAL FATE

no data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

Disposal should be made in accordance with federal, state and local regulations., Incineration recommended in approved incinerator according to federal, state, and local regulations.

14. TRANSPORT INFORMATION

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.



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15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory	y (positive listing)	
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)	
Korea Existing Chemicals Inventory (KECI)	y (positive listing)	
China Inventory of Existing Chemical Substances	y (positive listing)	
Australia Inventory of Chemical Substances (AICS)	y (positive listing)	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)	
EU list of existing chemical substances	y (positive listing)	
Canada NDSL Inventory	n (Negative listing)	
TSCA list	y (positive listing)	On TSCA Inventory

For inventories that are marked as quantity restricted or special cases, please contact Momentive.

US Regulatory Information

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard; Fire Hazard

SARA (313) CHEMICALS

CALIFORNIA PROPOSITION 65

WARNING! This product contains a chemical known in the State of California to cause cancer.
64-17-5, Ethanol. 108-88-3, Toluene.

Canadian Regulatory Information

WHMIS HAZARD CLASS

- E - Corrosive Material
- B3 - Combustible Liquid
- D2A - Very Toxic Material Causing Other Toxic Effects
- D2B - Toxic Material Causing Other Toxic Effects



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Other

SCHDLE B/HTSUS: 3214.10.0010 Mastics based on rubber

ECCN: EAR99

16. OTHER INFORMATION

OTHER

C = ceiling limit applicable NEGL = negligible EST = estimated NF = none found NA = not applicable UNKN = unknown NE = none established REC = recommended ND = none determined V = recommended by vendor SKN = skin TS = trade secret R = recommended MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million ppb = parts per billion
By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)., These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.