

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Radiator Flush
MSDS NO. 4917
Revision Date: 03/14/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Radiator Flush
Chemical Family: SILICATE BLEND
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier:
Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no ingredients now known to be hazardous as defined by OSHA.

3. HAZARDS IDENTIFICATION

Emergency Overview: May irritate the eyes. May irritate the skin.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Ingestion: If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Ingestion of large amounts can be detrimental to health.
Inhalation: Not a hazard under normal use conditions.
Skin Contact: Flush with copious amounts of water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): This material will not ignite.
Flash Point Method: Not Determined
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Carbon dioxide. Foam. Dry chemical. Water.
Protection Of Fire-Fighters:
Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Not determined.
Aerosol Comments: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Wear protective equipment specified. Contain any liquid from leaking containers. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wash walking surfaces with detergent and water to reduce slipping hazard.
Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Storage: Avoid contact with eyes. Keep containers tightly closed when not in use. Use only in a well ventilated area. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Wash thoroughly after handling. Do Not Swallow.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations. Showers.
Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection: Use chemical resistant gloves for prolonged skin contact.
Respiratory Protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Opaque Liquid.
Odor: MILD
Vapor Pressure: Not Determined
pH Value: Not Determined
Vapor Density (Air=1): Not Determined

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Boiling Point (°F):	>250 F.	Melting/Freezing Point:	Not Determined.
Solubility in Water:	100%	Bulk Density at 20°C:	Not Determined
Molecular Weight:	Mixture	Evaporation Rate:	Not Determined
Viscosity:	Not Determined	Specific Gravity (H2O=1):	1.2 - 1.3 @ 60F
VOC Content(%):	Not Determined.	Decomposition Temperature:	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	STABLE.
Conditions to Avoid:	None anticipated
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon.
Hazardous Polymerization:	WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Carcinogenicity:

No component known to be present in this product at >.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: This product as purchased does not fall under current U.S. EPA RCRA difinitions of hazardous waste. Under RCRA it is the generator's responsibility to determine the status of the waste at the time of its disposal. This product does not contain any CERCLA regulated materials.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
UN/NA Number:	Not Applicable
DOT Packing Group:	Not Applicable

IMDG:

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
Hazard Subclass:	Not Applicable
UN No.:	Not Applicable
Packing Group:	Not Applicable
Marine Pollutant:	No

15. REGULATORY INFORMATION

US Federal Regulations:

Not applicable.

SARA 311/312 Hazard Catagories: Not Determined.

State Regulations:

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U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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