



Material Safety Data Sheet

Version: 2

Revision date: 6/20/2017

1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 95168PREMSC
SDS #: 427
Product name: **RelaTECH Premium System Cleaner**

Manufactured For:
RelaDyne, LLC
8280 Montgomery Road, Suite 101
Cincinnati, OH 45236
888-830-3156
www.reladyne.com

Emergency telephone number:
INFOTRAC 800-535-5053

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	Weight %	CAS No.	OSHA Ceiling Limits	OSHA TWA (final):	ACGIH Ceiling Limits	ACGIH Exposure Limits:	Vendor Exposure Limits:
9-Octadecen-1-amine, (z)-	90 - 100%	112-90-3		NA		None	

3. HAZARDS IDENTIFICATION

Emergency Overview

CORROSIVE

The product causes burns of eyes, skin and mucous membranes.
Harmful by inhalation, in contact with skin and if swallowed.

Principle routes of exposure: Eyes, skin and inhalation.

Signal word: DANGER

Eye contact: Causes eye burns. Risk of serious damage to eyes.

Skin contact: Will cause irritation, reddening, and swelling. Causes skin burns. May cause sensitization by skin contact.

Inhalation: Harmful by inhalation. Inhalation of high vapor concentrations may cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function.

Ingestion: Can burn mouth, throat, and stomach.

Physico-chemical properties: No hazards resulting from material as supplied.

4. FIRST AID MEASURES

General advice:	Rinse immediately with plenty of water and seek medical advice. Take off all contaminated clothing immediately.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Skin contact:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Ingestion:	Immediately give large quantities of water to drink. If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
Notes to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis.

5. FIRE-FIGHTING MEASURES

Flash point (°C): 148.33	Flash point (°F): 299	Flash Point Method: COC
Flammable limits in air - upper (%): Not determined	Flammable limits in air - lower (%): Not determined	
Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray or 'alcohol' foam.	
Specific hazards:	Burning produces irritant fumes.	
Unusual hazards:	None known	
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Specific methods:	Water mist may be used to cool closed containers.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust.
Environmental precautions:	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up:	Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: Keep container tightly closed. Avoid contact with skin and eyes. Do not empty into drains. Wear personal protective equipment.

Storage

Technical measures/storage conditions: Keep away from heat and sources of ignition

Incompatible products: strong oxidizing agents

Safe storage temperature: 40-100 ° F

Shelf life: 6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Ceiling Limits	ACGIH Exposure Limits:	OSHA Ceiling Limits	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
9-Octadecen-1-amine, (z)-		None		NA	None	None

Engineering measures: Ensure adequate ventilation.

Personal Protective Equipment

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a certified respirator that will protect against organic vapor must be worn.

Hand protection: Neoprene gloves

Skin and body protection: Chemical resistant apron, Long sleeved clothing

Eye protection: Goggles. If splashes are likely to occur, wear: Face-shield

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state: Liquid

Color: Clear Colourless to Light yellow

Odour: Amine-like

Boiling point/boiling range (°C): 322

Vapour pressure: ~1mm HG @ 131 C.

Vapour density: Heavier than air

VOC Content Product: Not determined

Solubility: Insoluble

Evaporation rate: Slower than ether

pH: ~ 9 to 11 @ 5% in IPA/Water

Flash point (°C): 148.33

Flash point (°F):	299
Decomposition temperature:	Not determined
Auto-ignition temperature:	Not determined
Density @ 15.5 ° C (g/cc) :	0.82 @ 100 F.
Bulk density @ 60 ° F (lb/gal):	6.83
Volatiles (% by volume) :	<1%
Partition coefficient (n-octanol/water, log Pow):	Not determined
Explosive properties:	
- upper limit:	No data available
- lower limit:	No data available

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None known

Materials to avoid:

Strong acids and oxidising agents

Hazardous decomposition products:

Nitrogen oxides (nox), Carbon oxides

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
9-Octadecen-1-amine, (z)-	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	

12. ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: Not Determined

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material..

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

UN/NA ID Number: UN 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (fatty diamines)
Hazard Class 8
Packing group: III
Emergency Response Guide Number: 153
DOT Label(s): Corrosive

TDG (CANADA):

UN nr: UN 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (fatty diamines)
TDG Hazard Classification: 8
Packing group: III

IMDG/IMO:

UN nr: UN 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (fatty diamines)
Class: 8
Packing group: III
IMO Label(s): Corrosive
Limited quantity: 5 L
Marine pollutant: Marine pollutant

IATA/ICAO:

UN nr: UN 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (fatty diamines)
Hazard Class: 8
Packing group: III
Maximum quantity for cargo only: 60 L
Maximum quantity for passenger: 5 L
Limited quantity: 1 L

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELING

OSHA Hazard Communication Standard: This product is considered to be hazardous under the OSHA Hazard Communication Standard.

Canada - WHMIS Classification Information: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Product Classification: Class E - Corrosive Material
Product Classification Graphic(s):



Component Classification Data:

Canadian National Pollution Inventory Data:

U.S. REGULATIONS:

SARA (311, 312) hazard class: This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): No
Flammability: No
Pressure: No
Reactivity: No

RCRA Status Not Regulated

Special Instructions WARNING! Do not add nitrites to this metalworking fluid under penalty of federal law. Addition of nitrites leads to formation of a substance known to cause cancer. This product is designed to be used without nitrites

STATE REGULATIONS (RTK):

California Proposition 65 Status: No components are listed

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory: This product complies with TSCA

Canada DSL Inventory List - This product complies with DSL

EC No. This product complies with EINECS

16. OTHER INFORMATION

Sources of key data used to compile the data sheet:

Material safety data sheets of the ingredients.

Reason for revision:

This data sheet contains changes from the previous version in section(s) 14

Prepared by:

Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

HMIS classification:

NFPA rating:

Health:

3

Health:

3

Flammability:

1

Flammability:

1

Reactivity:

0

Reactivity:

0

Personal Protection:

H

Special:

NA

* Indicates possible chronic health effect

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This Safety Data Sheet is prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. The information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

End of Safety Data Sheet