



"You won't believe it until you see it!"

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FlexTemp

MANUFACTURING LOCATION:

FlexKrete Technologies

881 N. Louisiana Dr.

Celina, TX 75009

HMS:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PERSONAL PROTECTION: X

CHEMICAL FAMILY USE: Additive

DATE REVISED: 09/18/2012

IN CASE OF EMERGENCY, CONTACT:

214-850-7328

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Yellow liquid. May cause eye, skin and respiratory tract irritation. May cause sensitization by skin contact. May be harmful if swallowed.

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. May cause sensitization by skin contact. Prolonged or repeated exposure may dry the skin.

INHALATION: Mist may cause irritation of the upper respiratory tract.

INGESTION: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: PERCENT: ACGIH TLV: ACGIH STEL: OSHA PEL: OSHA STEL: Units that the TWAs and STELs

are in:

Propylene Glycol >= 99 NE NE NE NE
57-55-6

Iron(1+), chloro[dimethyl-9,9-dihydroxy-3-methyl-2,4-di-(2-pyridinyl-kN)-7-[(2-pyridinylkN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3, kN7]-, chloride(1-)
478945-46-9

4. FIRST AID MEASURES

EYES:

Flush eyes thoroughly with water for several minutes. Remove contact lenses, if worn. Consult a physician.

SKIN:

Wash off immediately with soap and plenty of water. Contact a physician if irritation develops.

INHALATION:

4. FIRST AID MEASURES

INGESTION:

If ingested, seek medical attention. Never give anything by mouth to an unconscious person.

MEDICAL CONDITIONS AGGRAVATED:

None known.

NOTE TO PHYSICIAN:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F) >200

OSHA FLAMMABILITY CLASSIFICATION:

Combustible Liquid-Class III B

EXTINGUISHING MEDIA:

Alcohol foam, water fog, carbon dioxide or dry chemical. Do NOT use direct water stream.

SPECIAL FIREFIGHTING PROCEDURES:

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

EXPLOSION LIMITS IN AIR - LOWER (%) 2.6

EXPLOSION LIMITS IN AIR - UPPER (%) 12.5

AUTOIGNITION TEMP (° F) 700 (371 °C)

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear protective personal equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Spilled material may make surfaces slippery. Wash spill area with water. Remove sources of ignition. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

7. HANDLING AND STORAGE

HANDLING:

Always wear recommended personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or mists. Use only with adequate ventilation. Keep away from ignition sources. Wash thoroughly after handling.

STORAGE:

Store in a cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION EQUIPMENT:

Respiratory protection may be required in addition to ventilation depending upon conditions of use.

PROTECTIVE GLOVES:

Impervious gloves.

EYE AND FACE PROTECTION:

Chemical safety glasses with side shields or chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT:

Wear suitable protective clothing.

VENTILATION:

Use local and general exhaust ventilation to control levels of exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point 188.2 °C (370.8 °F)
Vapor Pressure 0.173 hPa @ 25 °C (77 °F)
Vapor Density (AIR=1) 2.62
Freezing Point Unknown
Melting Point -59 °C
Physical State Liquid
Color Yellow
% Volatile by Weight 99
% Volatile by Volume 99.3
Evaporation Rate (Butyl Acetate=1) 0.01
Specific Gravity @ 25°C 1.04
Weight per gallon 8.66 lbs.
Viscosity 58.1 mPa.s
Solubility in Water Soluble
Product pH Range 4.92 - 10% solution in distilled water

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents, strong acids, strong bases. Alkalies.

CONDITIONS TO AVOID:

High temperatures, incompatible materials, ignition sources, excess heat.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

This product is not listed as a carcinogen by IARC, NTP or OSHA.

ACUTE ORAL LD50: No data at this time.

ACUTE DERMAL LD50: No data at this time.

ACUTE INHALATION LC50: No data at this time.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time.

CHEMICAL FATE INFORMATION:

No data at this time.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

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

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not Regulated

DOT HAZARD CLASS: None

UN/NA NUMBER: None

DOT PACKING GROUP: None

AIR TRANSPORTATION: Not Regulated

OCEAN TRANSPORTATION: Not Regulated

15. REGULATORY INFORMATION

TSCA STATUS:

All components in this product are listed on the TSCA inventory.

CALIFORNIA PROPOSITION 65:

This product is not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do

not conduct routine analysis for all listed materials.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE LIST:

This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substance List.

SARA (311, 312) HAZARD CLASS:

Acute health hazard.

SARA SECTION 313 TOXIC CHEMICALS:

AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES:

All components are listed on the Australian Core Inventory of Chemical Substances (ACOIN), with the exception of: Iron complex.

CANADIAN INVENTORY:

All components are listed on the Canadian Inventory with the exception of: Iron complex.

EINECS REGULATIONS:

The Iron complex is not listed on EINECS. It is considered a phase-in substance and has been pre-registered under REACH.

JAPAN:

All components are listed on the Japanese Existing and New Chemical Substances (ENCS), with the exception of: Iron complex.

KOREAN CHEMICAL INVENTORY:

All components are on the Korean List of Existing Chemical Substances.

PHILIPPINE INVENTORY:

All components are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) with the exception of: Iron complex.

CHINESE INVENTORY:

All components are listed on the Chinese Inventory of Existing Chemical Substances with the exception of: Iron complex.

16. OTHER INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

17. LABEL INFORMATION

SIGNAL WORD: CAUTION

TARGET ORGANS:

May cause eye, skin and respiratory tract irritation. May cause sensitization by skin contact. May be harmful if swallowed.

EYES:

Flush eyes thoroughly with water for several minutes. Remove contact lenses, if worn. Consult a physician.

SKIN:

Wash off immediately with soap and plenty of water. Contact a physician if irritation develops.

INHALATION:

Move person to fresh air. If breathing difficulties or discomfort occurs and persists, consult a physician.

INGESTION:

If ingested, seek medical attention. Never give anything by mouth to an unconscious person.

HANDLING:

Always wear recommended personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or mist. Wash

thoroughly after handling. Use only with adequate ventilation.

STORAGE:

Store in a cool, dry, well-ventilated area away from sources of ignition. Keep containers tightly closed when not in use.

17. LABEL INFORMATION

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear protective personal equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Spilled material may make surfaces slippery. Wash spill area with water. Remove sources of ignition. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

EXTINGUISHING MEDIA:

Alcohol foam, water fog, carbon dioxide or dry chemical. Do NOT use direct water stream.