CRC.

SAFETY DATA SHEET

1. Identification

Product identifier Smart Meter Lube

Other means of identification

Product code 02019

Recommended use Lubricant for installing smart meters

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information 215-674-4300 **Technical** 800-521-3168

Assistance

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazardsGases under pressureLiquefied gasHealth hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2B

Environmental hazards Hazardous to the ozone layer Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated. Causes skin irritation. Causes eye irritation.

Precautionary statement

Prevention Do not puncture or incinerate container. Do not expose to heat or store at temperatures above

49°C/120°F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wear protective gloves. Wash hands

thoroughly after handling.

Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical attention.

Storage Store in a well-ventilated place. Protect from sunlight. Exposure to high temperature may cause

can to burst.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Harms public health and the environment by destroying ozone in the upper atmosphere.

Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride and hydrogen chloride.

Material name: Smart Meter Lube 2623 Version #: 01 Issue date: 06-18-2014

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
1,1,1,2-Tetrafluoroethane	HFC-134a	811-97-2	40 - 50
HCFC-225cb		507-55-1	30 - 40
HCFC-225ca		422-56-0	10 - 20
Trans-1,2-dichloroethylene		156-60-5	5 - 10
Polydimethylsiloxane		63148-62-9	3 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Skin contact

Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Irritation of eyes and mucous membranes.

Most important

symptoms/effects, acute and

delayed

Ingestion

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Water.

None known.

Contents under pressure.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed

to heat. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up **Environmental precautions**

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Level 1 Aerosol.

Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight.

8. Exposure controls/personal protection

upational exposure limits	Contominanto /20 CER 1010	1000)	
US. OSHA Table Z-1 Limits for Air Components	Type	Value	
Trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Values			
Components	Type	Value	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3	
·		200 ppm	
US. AIHA Workplace Environmenta	al Exposure Level (WEEL) Gu	ides	
Components	Туре	Value	
1,1,1,2-Tetrafluoroethane	TWA	4240 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

(CAS 811-97-2)

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

1000 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Viton®.Other Wear suitable protective clothing.

Respiratory protectionIf engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Aerosol.
Color Off-white.
Odor Slight ethereal.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -204 °F (-131.1 °C) estimated Initial boiling point and boiling 118 °F (47.8 °C) estimated

range

2623 Version #: 01 Issue date: 06-18-2014

Material name: Smart Meter Lube SDS US

Flash point None (Tag Closed Cup)

Evaporation rate Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

6.7 % estimated

Flammability limit - upper

(%)

18 % estimated

Vapor pressure 2923.5 hPa estimated

Vapor density7 (air = 1)Relative density1.36 estimatedSolubility (water)Negligible.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature 860 °F (460 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.Percent volatile94.1 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Keep away from heat, sparks and open flame. When exposed

to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such

as hydrogen fluoride and hydrogen chloride.

Incompatible materials Strong oxidizing agents. Alkalis. Alkaline earth metals.

Hazardous decomposition

products

Carbon oxides. Hydrochloric acid. Hydrofluoric acid. Carbonyl halides.

11. Toxicological information

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Skin contactCauses skin irritation.Eye contactCauses eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Irritant effects.

Information on toxicological effects

Acute toxicity Causes eye irritation.

Product	Species	Test Results	
Smart Meter Lube			
Acute			
Dermal			
LD50	Rabbit	5018.2061 mg/kg estimated	
Inhalation			
LC50	Rat	57930.9414 ppm, 4 hours estimated	
		5131.7378 mg/l, 4 hours estimated	
Oral			
LD50	Rat	5528.582 mg/kg estimated	

2623 Version #: 01 Issue date: 06-18-2014

Product Species Test Results Chronic Dermal LD50 Rabbit 16848.916 mg/kg estimated Inhalation **NOEL** Rat 24600.8516 ppm estimated **Subchronic** Inhalation LC50 Rat 37697.7969 ppm, 90 days estimated Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes eye irritation. irritation Respiratory sensitization Not available. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity This product is not expected to cause reproductive or developmental effects. Reproductive toxicity Not classified. Specific target organ toxicity -

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure

Not available.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

toxicity The product contains a substance which is damaging to the ozone layer.		o the ozone layer.	
Product		Species	Test Results
Smart Meter Lube			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	2073.3787 mg/l, 48 hours estimated
Fish	LC50	Fish	1272.3007 mg/l, 96 hours estimated
Components		Species	Test Results
Polydimethylsiloxane (CAS 6	63148-62-9)		
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
Trans-1,2-dichloroethylene (CAS 156-60-	5)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	220 - 290 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	135 mg/l, 96 hours
ersistence and degradability	This product is not biodegradable.		
oaccumulative potential	No data available.		
Partition coefficient n-octa	nol / water (l	og Kow)	
1,1,1,2-Tetrafluoroethane		1.274	
HCFC-225ca		3.2	
HCFC-225cb Trans-1,2-dichloroethylene		3.1 2.09	
obility in soil	No data a		

Other adverse effects

13. Disposal considerations

Disposal of waste from residues / unused products

The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Consult authorities before disposal. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national

regulations.

Hazardous waste code

Not regulated.

Contaminated packaging

Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

Aerosols, non-flammable, limited quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk -Label(s) 2.2

Packing groupNot applicable.Special precautions for userNot available.Special provisionsNot available.

Packaging exceptions306Packaging non bulkNonePackaging bulkNone

IATA

UN number UN1950

UN proper shipping name Aerosols, non-flammable, limited quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No. **ERG Code** 2L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, LIMITED QUANTITY

Transport hazard class(es)

Class 2

Subsidiary risk -

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS F-D, S-U

Special precautions for user Not available.

15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

HCFC-225ca (CAS 422-56-0) HCFC-225cb (CAS 507-55-1)

CERCLA Hazardous Substance List (40 CFR 302.4)

Trans-1,2-dichloroethylene (CAS 156-60-5)

CERCLA Hazardous Substances: Reportable quantity

Trans-1,2-dichloroethylene (CAS 156-60-5) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US CAA Section 602 Ozone-Depleting Substances: Controlled substance Class

HCFC-225ca (CAS 422-56-0) II HCFC-225cb (CAS 507-55-1) II

HCFC-225ca/cb is a Class II Ozone Depleting Substance subject to use and sales restrictions. See 40 CFR Part 82.70 for a description of the acceptable uses for this product.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

No

HCFC-225ca (CAS 422-56-0) HCFC-225cb (CAS 507-55-1)

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. Massachusetts RTK - Substance List

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. Rhode Island RTK

HCFC-225ca (CAS 422-56-0)

HCFC-225cb (CAS 507-55-1)

Trans-1,2-dichloroethylene (CAS 156-60-5)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 6 °

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

VOC content (CA)

VOC content (OTC)

Not regulated

54 %

VOC content (OTC)

6 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 06-18-2014
Prepared by Allison Cho

Version # 01

Further information CRC # 716

HMIS® ratings Health: 2
Flammability: 0
Physical bazars

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).