SAFETY DATA SHEET



Lubricate your knowledge with the experts!

SL-C Series

Revision B

Effective Date: 11/01/2018

Regulation: 1907/2006/EC, In accordance with the provisions of Article 41, Industrial Safety & Health Act.
OSHA Hazard Communication Standard (29 CFR 1910.1200).

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

 Material Name
 : SL-C #000, SL-C #00, SL-C #0, SL-C #1, SL-C (#2), SL-C #3

 Product Code
 : 06001
 06003
 06005
 06007
 06010
 06013

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Product Use : Industrial Cryogenic Grease

Uses Advised Against: This product must not be used in applications other than those

recommended in Section 1, without first seeking the advice of the supplier.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer/Supplier : Sentinel Lubricants Inc.

15755 NW 15th Ave Miami, FL 33169

Telephone: Marketing Technician Department

1(800) 842-6400, (305) 625-6400

Fax : (305) 625-6565

Email Contact for Safety Data Sheet : info@sentinelsynthetic.com

1.4 EMERGENCY TELEPHONE NUMBER : INFOTRAC - 1.800.535.5053 Contract #107464

International - 352.323.3500

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

1999/45/EC and OSHA 29 CFR 1910.1200		
Hazard Characteristics	R-phrase(s)	
Not classified as dangerous under EC Criteria		
Hazard Not Otherwise Classified (HNOC)		

2.2 EC LABEL ELEMENTS Labeling according to Directive 1999/45/EC

EC Classification : Not classified as dangerous substance.

EC Symbols : No Hazard Symbol required.

EC Risk Phrases : Not classified.
EC Safety Phrases : Not classified.

Health Hazard: Not expected to be a health hazard when used under normal conditions.

Environmental Hazards: Not classified as dangerous for the environment.

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2.3 GHS LABEL ELEMENTS

GHS Classification : Not classified as dangerous substance.

GHS Symbol(s) : No symbol. **GHS Signal Words** : No signal word. **Physical Hazards** : Not classified. **Health Hazards** : Not classified.

Environmental Hazards : H412: Harmful to aquatic life with long lasting effects.

GHS Precautionary Statements

Prevention : Avoid release to environment. Response : No Precautionary phrases. Storage : No Precautionary phrases.

Disposal : Dispose of contents and container to appropriate waste site or reclaimed in

accordance with local and national regulations.

2.4 OTHER HAZARDS

Unclassified Hazards Health: Prolonged or repeated skin contact without proper cleaning can clog pores of skin resulting

in disorders such as oil acne/folliculitis. High-pressure injection under the skin may cause serious damage including local necrosis. Used grease may contain harmful impurities.

Safety : Not classified as flammable, but will burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

Material Name : Not applicable.

3.2 MIXTURES

Mixture Description : A lubricating grease consisting of synthetic oil and additives.

Chemical Identity	Name	CAS	Hazard Class (Category)
Synthetic Hydrocarbon Base Oil	1-Decene, Homopolymer, Hydrogenated	68037014	None

Additional Information : This mixture does not contain any REACH registered substances that are assessed to be PBT or a vPvB.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage of composition may have been withheld.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under normal conditions.

Inhalation : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical

advice.

Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap

> if available. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. If persistent irritation occurs, obtain medical attention. Obtain medical

attention even in absence of apparent wounds.

Eye Contact : Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. Ingestion

: In general no treatment is necessary unless large quantities are swallowed; however, seek medical

advice.

Self-protection

of the first aider

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS

Acute and Delayed

: Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhea.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physician

: Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy to minimize tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anesthetics, and wide exploration is essential.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

5.1 EXTINGUISHING MEDIA:

Foam, water spray, or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazardous combustion products may include: a complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

5.3 ADVICE FOR FIREFIGHTERS:

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product. Self-contained breathing apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant standards (e.g. Europe: EN469).

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. Observe the relevant local and international regulations.

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel : Avoid contact with skin and eyes. For emergency responders : Avoid contact with skin and eyes.

6.2 ENVIRONMENTAL PRECAUTIONS:

Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations.

6.4 REFERENCE TO OTHER SECTIONS:

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

7. HANDLING AND STORAGE

7.1 GENERAL PRECAUTIONS:

Use local exhaust ventilation if there is risk of inhalation of vapors, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

7.2 PRECAUTIONS FOR SAFE HANDLING:

Avoid prolonged or repeated contact with skin. Avoid inhaling vapors and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closeable containers.

7.3 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage : Store at ambient temperature.

Recommended Materials: For containers or container linings, use mild steel or high density polyethylene.

Unsuitable Materials : PVC.

7.4 SPECIFIC END USE(S) : Not applicable.

Additional Information : Polyethylene containers should not be exposed to high temperatures because of

possible risk of distortion.

Refer to Section 15 for any additional specific legislation covering the packaging and storage of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

8.1 CONTROL PARAMETERS

Occupational Exposure Limits

Material	Source	Туре	PPM	mg/m³	Notation
	ACGIH	TWA (Inhalable fraction)		5	
Oil mist	OEL (BE)	TWA (Mist)		5	
	OEL (BE)	STEL (Mist)		10	

Additional Information: Due to the product's semi-solid consistency, generation of mists and

dusts is unlikely to occur.

Biological Exposure Index (BEI) : No biological limit allocated.

PNEC Related Information: Data not available.

Monitoring Methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances, biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analyzed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH),USA:	Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung	
Manual of Analytical Methods http://www.cdc.gov/niosh/	(IFA), Germany http://www.dguv.de/inhalt/index.jsp	
Occupational Safety and Health Administration (OSHA), USA: Sampling	L'Institut National de Recherche et de Securité, (INRS), France	
and Analytical Methods http://www.osha.gov/	http://www.inrs.fr/accueil	
Health and Safety Executive (HSE), UK: Methods for the		
Determination of Hazardous Substances http://hse.gov.uk/		

8.2 EXPOSURE CONTROLS

General Information:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated. Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Occupational Exposure Controls

Personal Protective Equipment:

The provided information is made in consideration of the PPE directive (Council Directive 89686EEC) and the CEN European Committee for Standardization (CEN) standards. Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye Protection:

Wear safety glasses or full face shield if splashes are likely to occur. Approved to EU Standard EN166.

Hand Protection:

Where hand contact with the product may occur, the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time or more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor or glove resistance to a chemical as it is dependent on the exact composition of the glove material.

Body Protection:

Skin protection not ordinarily required beyond standard issue work clothes.

Respiratory Protection:

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors [boiling point > 65°C (149°F)] meeting EN14387.

Thermal Hazards

: Not applicable.

Environmental Exposure Controls Measures:

Minimize release to the environment. An environment assessment must be made to ensure compliance with local environmental legislation. Information on accidental release measures are to be found in Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical Description	: Amber, semi-solid, bland odor	N-Octanol/Water Partition	: > 6 (based on information on similar
рН	: NDA		products) coefficient (log Pow)
Boiling Point	: N/A	Dynamic Viscosity	: NDA
Dropping Point	: None	Kinematic Viscosity	: 3-4 cSt @ 100°C
Flash Point (COC)	: 231-288°C (448-550°F) min.	Vapor Density (Air = 1)	: > 1 (estimated value)
Water Solubility	: Insoluble	Evaporation Rate (nBuAc = 1)	: NDA
Auto-Ignition Temp.	: None	Decomposition	: NDA
Specific Gravity	: 0.90 @ (15.6/15.6C)	Vapor Pressure	: N/A
Relative Density	: Typical 0.9 @ 15°C/59°F	Temperature Flammability	: NDA
Density	: Typical 0.9 kg/m3 @ 15°C/59°F	Oxidizing Properties	: NDA
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10. STABILITY AND REACTIVITY

Effective Date: 11-01-2018

10.1 REACTIVITY : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

10.2 CHEMICAL STABILITY : No hazardous reaction is expected when handled and stored

according to provisions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS : Reacts with strong oxidizing agents.

10.4 CONDITIONS TO AVOID : Extremes of temperature and direct sunlight.

10.5 INCOMPATIBLE MATERIALS : Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS : Hazardous decomposition products are not expected

to form during normal storage.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION TOXICOLOGICAL EFFECTS

Basis for Assessment : Information given is based on data on the components and the toxicology of

> similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual

component(s).

Likely Routes of Exposure : Skin and eye contact are the primary routes of exposure although exposure

may occur following accidental ingestion.

Acute Oral Toxicity : Expected to be of low toxicity: LD50 > 5000mg/kg, Rat. : Expected to be of low toxicity: LD50 > 5000mg/kg, Rabbit. **Acute Dermal Toxicity**

Acute Inhalation Toxicity : Not considered to be an inhalation hazard under normal conditions of use. Skin Corrosion/Irritation : Expected to be slightly irritating. Prolonged or repeated skin contact without

proper cleaning can clog pores of the skin resulting in disorders such as oil

acne/folliculitis.

Serious Eye Damage/Irritation

: Expected to be slightly irritating.

Respiratory Irritation

: Inhalation of vapors or mists may cause irritation.

Respiratory/Skin Sensitization : Not expected to be a sensitizer. **Aspiration Hazard** : Not considered an aspiration hazard. **Germ Cell Mutagenicity** : Not considered a mutagenic hazard.

Carcinogenicity : Not expected to be carcinogenic.

Material	Carcinogenicity Classification
PCA-Content (IP346 <3%)	ACGIH Group A4: Not classifiable as human carcinogen
PCA-Content (IP346 <3%)	IARC 3: Not classifiable as to carcinogenicity to humans
PCA- Content (IP346 <3%)	GHS/CLP: No carcinogenicity classification

Reproductive & Developmental Toxicity : Not expected to be a hazard.

Summary on Evaluation of the CMR Properties:

Carcinogenicity : This product does not meet the criteria for classification in categories 1A/1B. Mutagenicity : This product does not meet the criteria for classification in categories 1A/1B. Reproductive Toxicity (fertility) : This product does not meet the criteria for classification categories 1A/1B.

Specific Target Organ (Single exposure) : Not expected to be a hazard. **Specific Target Organ (Repeated exposure)** : Not expected to be a hazard.

Additional Information

: Used grease may contain harmful impurities that have accumulated concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed. Classification by other authorities under carrying regulatory frameworks may exist.

12. ECOLOGICAL INFORMATION

Effective Date: 11-01-2018

Basis of Assessment: Eco toxicological data have not been determined specifically for this product.

Information given is based on knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual

component(s).

12.1 TOXICITY

Acute Toxicity: Poorly soluble mixture. May cause physical fouling of aquatic organisms.

Expected to be practically nontoxic: LL/EL/IL50 > 100mg/1 (to aquatic organisms) LL/EL50 expressed as the nominal amount of product required to prepare

aqueous extract.

12.2 PERSISTENCE & DEGRADABILITY : Expected to not be readily biodegradable.

12.3 BIO ACCUMULATIVE POTENTIAL : Not expected to bio accumulate significantly.

12.4 MOBILITY IN SOIL : Semi-solid under most environmental conditions. If it enters

soil, it will adsorb to soil particles and will not be mobile. Sinks in

water.

12.5 RESULT OF PBT & vPvB ASSESSMENT : This mixture does not contain any REACH registered

substances that are assessed to be a PBT or a vPvB.

12.6 OTHER ADVERSE EFFECTS : Product is a mixture of non-volatile components, which are not

expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical

ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine

the toxicity and physical properties of the material generated to determine to proper waste classification and disposal methods in compliance with applicable regulations. Do

not dispose into the environment, in drains or in water courses.

Container Disposal: Dispose in accordance with prevailing regulations, preferably to a recognized collector

or contractor. The competence of the collector or contractor should be established

beforehand.

Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and

regulations. EU Waste Disposal Code (EWC): 12 01 12 spent waxes and fats. Classification

of water is always the responsibility of the end user.

14. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

Land Transport (ADR/RID)

ADR : This product is not classified as dangerous for this mode of transport. Therefore REACH requirements of

14.1 UN Number, 14.2 UN Proper shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5

Environmental hazards, and 14.6 Special precautions for use do not apply.

RID : This product is not classified as dangerous for this mode of transport. Therefore REACH requirements of

14.1 UN Number, 14.2 UN Proper shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5

Environmental hazards, and 14.6 Special precautions for use do not apply.

DOT : Not regulated for land transportation.TDG : Not regulated for land transportation.

Inland Waterways Transport (AND): This product is not classified as dangerous for this mode of transport. Therefore

REACH requirements of 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, and 14.6 Special precautions for use do not apply. CDNI Inland Water Waste: NST

3411 Greases Agreement.

Sea Transport (IDMG CODE) : This product is not classified as dangerous for this mode of transport.

Therefore REACH requirements of 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental

hazards, and 14.6 Special precautions for use do not apply.

Air Transport (IATA) : This product is not classified as dangerous for this mode of transport.

Therefore REACH requirements of 14.1 UN Number, 14.2 UN Proper shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental

hazards, and 14.6 Special precautions for use do not apply.

Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code

Pollution Category: N/AShip Type: N/AProduct Name: N/ASpecial Precaution: N/A

Additional Information: MARPOL Annex 1 rules apply for bulk shipments by sea.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

15.1 SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Other Regulatory Information : Product is not subject to Authorization under REACH.

Authorizations and/or Restrictions on Use

Recommended Restrictions on Use : This product must not be used in applications other than those

(Advice Against) recommended in Section 1, without first seeking the advice of

the supplier.

Chemical Inventory Status

EINECS : All components listed on polymer exempt.

TSCA : All components listed.

15.2 CHEMICAL SAFETY ASSESSMENT: No Chemical Safety Assessment has been carried out for this

substance/mixture by the supplier.

16. OTHER INFORMATION

Effective Date: 11-01-2018

NFPA Hazard ID : Health - 1 Flammability – 1 Instability - 0 **HMIS Hazard ID** : Health - 1 Flammability – 1 Reactivity - 0

Additional Information : No Exposure Scenario annex is attached to this Safety Data Sheet as it is

a non-classified mixture containing no hazardous substances.

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be

looked up in reference literature (e.g., scientific dictionaries) and/or

websites.

ACGIH = American Conference of Governmental Industrial Hygienists

AICS = Australian Inventory of Chemical Substances

BEL = Biological Exposure Limits CAS = Chemical Abstract Service

CLP = Classification Packaging and Labeling DIN = Deutsches Institut fur Normung DNEL = Derived No Effect Level EC = European Commission

ECETOC = European Center on Ecotoxicology and Toxicology of Chemicals EINECS = European Inventory of Existing Commercial Chemical Substances ENCS = Japanese Existing and New Chemical Substances Inventory

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IL50 = Inhibitory Level Fifty INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N°346 for the determination of polycyclic aromatics DMSO extractables

KECI = Korea Existing Chemicals Inventory

LD50 = Lethal Dose Fifty Percent

LL50 = Lethal Loading Fifty

NOEC/NOEL = No Observed Effect Concentration/ No Observed Effect Level

PBT = Persistent. Bio accumulative and Toxic PNEC = Predicted No Effect Concentration

RID = Regulations Relating to International Carriage of Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short Term Exposure Limit

TSCA = US Toxic Substances Control Act

vPvB = very Persistent and very Bio accumulative

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM = American Society for Testing and Materials BTEX = Benzene, Toulene, Eythlbenzene, Xylenes CEFIC = European Chemical Industrial Council

COC = Cleveland Open-Cup DMEL = Derived Minimal Effect Level

DSL = Canada Domestic Substance List EC50 = Effective Concentration Fifty ECHA = European Chemicals Agency FLSO = Effective Loading Fifty EWC = European Waste Code

IARC = International Agency for Research on Cancer

IC50 = Inhibitory Concentration Fifty

IMDG = International Maritime Dangerous Goods

LC50 = Lethal Concentration Fifty

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory Loading

MARPOL = International Convention for the Prevention of Pollution from Ships

OE_HPV = Occupational Exposure-High Pollution Volume

PICCS = Philippine Inventory of Chemicals and Chemical Substances REACH = Registration Evaluation & Authorization of Chemicals

RA = Targeted Risk Assessment TWA = Time Weighted Average

Additional Abbreviations and Acronyms:

Acute Tox. = Acute Toxicity Asp Tox. = Aspiration Toxicity

Aguatic Acute = Acute hazards to the aguatic environment Aquatic Chronic = Long-term hazard to the aquatic environment

Eye Dam. = Serious eye damage/eye irritation Flam. Liq. = Flammable liquids Skin Corr. = Skin corrosion irritation Skin Sens. = Skin sensitization

STOT Re = Specific target organ toxicity- repeated exposure STOT Se = Specific target organ toxicity- single exposure

SDS Distribution : The information in this document should be made available to all who

may handle the product.

SDS Revision Number : B

SDS Effective Date :11/01/2018

: Regulation 1907/2006/EC as amended by Regulation (EU) 453/2000. **SDS Regulation**

In accordance with the provisions of Article 41, Industrial Safety & Health

Act and OSHA Hazard Communication Standard (29 CFR 1910.1200).

Disclaimer : The information is based on our current knowledge and is intended to

> describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing

any specific property of the product.