

WIRELOCK ROPE CAPPING KIT (RESIN)

ST-R-ROP

SDS Revision Date (mm/dd/yyyy): 04/29/2019

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **WIRELOCK ROPE CAPPING KIT (RESIN)**

Product Code(s)

: ST-R-ROP

Recommended use of the chemical and restrictions on use

: Resin used for attaching wire rope to a socket.
Restrictions on use: Not available.

Chemical family

: Mixture.

Name, address, and telephone number of the manufacturer:

Millfield Enterprises Limited

16 Shelley Road
Newburn Industrial Estate, Newburn
Newcastle Upon Tyne NE15 9RT
England
Manufacturer's Telephone # : (0191) 264 8541

Name, address, and telephone number of the supplier:

STRIDER-RESOURCE A Division of the O'Rourke Marketing Corporation Ltd.

5667 King Road
Nobleton, ON, Canada
L0G 1N0
Supplier's Telephone # : (905) 859-3901

24 Hr. Emergency Tel # : Not available.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Pale yellow liquid. Characteristic odour.

Most important hazards:

Flammable liquid and vapour. May be ignited by open flames and sparks. Irritating to eyes, respiratory system and skin. May cause an allergic skin reaction. Inhalation may cause central nervous system depression. Causes damage to organs through prolonged or repeated exposure. Possible cancer hazard - contains material which may cause cancer. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Flammable Liquid - Category 3

Skin Irritation - Category 2

Eye Damage/Irritation - Category 2B

Skin sensitization - Category 1A

Carcinogen - Category 2

Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation; Narcotic effects)

Specific target organ toxicity, repeated exposure - Category 1

Label elements

Hazard pictogram(s)



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Signal Word

Danger

Hazard statement(s)

Flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
May cause allergic skin reaction.
May cause drowsiness and dizziness.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.
Suspected of causing cancer.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks and open flame. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical and ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands and face thoroughly after handling.
Do not breathe mist or vapor.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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 advice/attention.
In case of fire, use dry chemical, CO₂, or alcohol foam to extinguish.

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:
May polymerize when heated or on contact with incompatible materials. Burning produces obnoxious and toxic fumes.
May cause gastrointestinal irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
Styrene	Ethenylbenzene Phenylethylene Vinyl benzene	100-42-5	30.0 - 60.0
Dibenzoyl peroxide	benzoyl peroxide	94-36-0	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes serious eye irritation. Symptoms may include tearing, redness and discomfort. May cause an allergic skin reaction (e.g. swelling, rash and eczema). May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing. Causes damage to organs through prolonged or repeated exposure. Symptoms may include loss of the outer hair cells of the cochlea (inner ear structure), hearing loss, vertigo and tinnitus.

Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide, dry chemical or alcohol foam.

Unsuitable extinguishing media

- : Do not use water jet as extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Flammable liquid and vapour.. Will ignite when exposed to heat, flame and other sources of ignition. Vapours may be heavier than air and may collect in confined and low-lying areas. May polymerize when heated or on contact with incompatible materials. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Hazardous combustion products

- : Carbon oxides; Aldehydes; Peroxides

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. For personal protection see section 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

To prevent the creation of flammable concentrations of vapour in air, good natural ventilation and if necessary local exhaust should be provided. The product should only be used in areas from which all naked lights and other sources of ignition, including unprotected electrical equipment, have been excluded. In order to prevent the risk of fire with all resins, good housekeeping standards must be maintained and the accumulation of dry residues, contaminated rags, etc. should be avoided.

Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Store locked up. This product must not be stored at temperatures exceeding 20°C. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Strong oxidizing agents; Acids; Alkalies; Metal salts.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Styrene	20 ppm	40 ppm	100 ppm	200 ppm (Ceiling)
Dibenzoyl peroxide	5 mg/m ³	N/Av	5 mg/m ³	N/Av

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Exposure controls

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

Respiratory protection

: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02.

Skin protection

: Impervious gloves must be worn when using this product. Wear as appropriate: Viton. Advice should be sought from glove suppliers. Wear resistant clothing and boots.

Eye / face protection

: Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields. A full face shield may also be necessary.

Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pale yellow liquid.
Odour : Characteristic odour.
Odour threshold : N/Av
pH : N/Av
Melting/Freezing point : Melting point: N/Av
Freezing point: N/Av

Initial boiling point and boiling range

: 145°C (293°F)

Flash point : 31°C (87.8°F)

Flashpoint (Method) : closed cup

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : No oxidizing properties.

Explosive properties : Not explosive

Vapour pressure : N/Av

Vapour density : > 1 (Air = 1.0)

Relative density / Specific gravity

: Relative density: 1.09 g/cm³ @ 25°C (77°F)
Specific Gravity: 1.09 @ 25°C (77°F)

Solubility in water : Insoluble.

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : N/Av

Viscosity : 335 - 455 cP

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Volatiles (% by weight) : N/Av
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Av
Flame projection length : N/Av
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
: May polymerize when heated or on contact with incompatible materials.
Conditions to avoid : Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Prevent exposure to UV radiation (e.g. from fluorescent tubes) as this may initiate slow polymerization which can continue in re-sealed containers. Avoid contact with incompatible materials.
Incompatible materials : Strong oxidizing agents; Acids; Alkalies; Metal salts.
Hazardous decomposition products
: Styrene oxide; Peroxides; Aldehydes.
Refer also to hazardous combustion products, Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin

: Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

Sign and symptoms eyes

: Causes serious eye irritation. Symptoms may include tearing, redness and discomfort.

Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Mutagenicity

: Not expected to be mutagenic in humans.
Contains: Styrene. Animal data shows that Styrene is weakly mutagenic but only at exposure levels producing other toxic effects in the adult animal.

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Carcinogenicity : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Carcinogenicity - Category 2. Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing. This product contains styrene, which is listed as an IARC Group 2B carcinogen.

Reproductive effects & Teratogenicity : This product is not expected to cause reproductive or developmental effects.

Sensitization to material : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin sensitization - Category 1A. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

Specific target organ effects : Not expected to be a respiratory sensitizer. This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity, repeated exposure - Category 1. Causes damage to organs through prolonged or repeated exposure.
Contains: Styrene. Symptoms may include loss of the outer hair cells of the cochlea (inner ear structure), hearing loss, vertigo and tinnitus.

Medical conditions aggravated by overexposure : Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : None known or reported by the manufacturer.

Toxicological data : Not classified for acute toxicity based on available data. The calculated ATE values for this mixture are:

ATE oral = 5300 - 7571 mg/kg
ATE inhalation (vapours) = 20.6 - 29.43 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Styrene	2425 ppm (10.3 mg/L) (vapour)	2650 mg/kg	> 2000 mg/kg (No mortality)
Dibenzoyl peroxide	> 24.3 mg/L (dust) (No mortality)	> 5000 mg/kg	N/Av

Other important toxicological hazards : None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Harmful to aquatic life with long lasting effects. The product itself has not been tested. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Dibenzoyl peroxide.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Styrene	100-42-5	10 mg/L (Fathead minnow)	N/Av	None.
Dibenzoyl peroxide	94-36-0	0.24 mg/L (Japanese ricefish)	N/Av	1

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Styrene	100-42-5	4.7 mg/L (Daphnia magna)	1.01 mg/L	None.
Dibenzoyl peroxide	94-36-0	0.07 mg/L (Daphnia magna)	N/Av	10

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Styrene	100-42-5	4.9 mg/L/72hr (Green algae)	N/Av	None.
Dibenzoyl peroxide	94-36-0	0.44 mg/L/72hr (Green algae)	N/Av	1

Persistence and degradability

- : No data is available on the product itself. The following ingredients are considered to be readily biodegradable: Styrene; Dibenzoyl peroxide.

Bioaccumulation potential

- : No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Styrene (CAS 100-42-5)	2.95	13.5 (Goldfish)
Dibenzoyl peroxide (CAS 94-36-0)	3.43	92

Mobility in soil

- : No data is available on the product itself.

Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

- : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of Disposal

- : Dispose of in accordance with federal, provincial and local hazardous waste laws.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1866	RESIN SOLUTION	3	III	
TDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking. Note: When combined with activator, kit may be shipped as UN3269.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. Although this product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code, this product does contain substances toxic for the environment. Avoid release to the environment. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

Styrene (Part 1, Group A Substance; Part 5: Individual Substances)

Dibenzoyl peroxide (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Styrene	100-42-5	202-851-5	Present	Present	(3)-4	KE-35342	Present	HSR001221
Dibenzoyl peroxide	94-36-0	202-327-6	Present	Present	(3)-1349	KE-09889	Present	HSR001372, HSR007398 (dilution)

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CAS: Chemical Abstract Services
CNS: Central Nervous System

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CSA: Canadian Standards Association
EC50: Effective Concentration 50%
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RTECS: Registry of Toxic Effects of Chemical Substances
SCBA: Self-Contained Breathing Apparatus
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
2. International Agency for Research on Cancer Monographs, searched 2019.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

Preparation Date (mm/dd/yyyy)

: 08/16/2015

Reviewed Date SDS (dd/mm/yyyy)

: 29/04/2019

Revision No.

: 2a

Revision Information

- : (M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
 3. COMPOSITION/INFORMATION ON INGREDIENTS;
 14. TRANSPORT INFORMATION

Other special considerations for handling

- : Provide adequate information, instruction and training for operators.

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