SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **HYDRO SEAL II**

Product Code(s) : HS3, HS3K, HS5K, HS5LB, HS8, HS3C, HS3KC, HS5KC, HS5LBC, HS8C

Recommended use of the chemical and restrictions on use

: Cleaning automotive, marine and other engine parts.
Uses advised against: Not for use on plastics or rubbers. Do not use in parts washers. Do not heat the product.

Chemical family : Mixture.

Name, address, and telephone number of the supplier:

Radiator Specialty Co., of Canada

1711 Aimco Blvd.
Mississauga, ON, Canada
L4W 1H7

Supplier's Telephone # : (905) 625-9117 (Mon. - Fri., 8 am - 4 pm)

24 Hr. Emergency Tel # : (613) 996-6666 (CANUTEC)

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Dark yellow liquid. Slightly aromatic odour.

Most important hazards:
Combustible liquid. May be ignited by open flame.
Harmful in contact with skin or if inhaled. Aspiration hazard. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage the unborn child. 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. 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 4
- Acute toxicity - Category 4 (Dermal; Inhalation)
- Skin corrosion/irritation - Category 2
- Eye damage/irritation - Category 2A
- Carcinogenicity - Category 2
- Reproductive toxicity - Category 1B
- Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation; Narcotic effects)
- Aspiration toxicity - Category 1

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

SAFETY DATA SHEET

Hazard statement(s)

Combustible liquid.
Harmful in contact with skin or if inhaled.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May damage the unborn child.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Avoid breathing mist or vapours. Wash hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation 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.

Store in a well-ventilated place. 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:
Toxic fumes may be released during a fire. May cause gastrointestinal irritation. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Prolonged overexposure may cause slight kidney effects, such as increased organ weight. Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Effects appear to be species specific. Humans are less sensitive to these effects.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	CAS #	Concentration
Distillates (petroleum), hydrotreated light	Distillate (petroleum) hydrotreated middle	64742-47-8	**23.12 - 27.2%**
2-butoxyethanol	Ethylene glycol monobutyl ether butyl cellosolve Glycol Ether EB EGBE	111-76-2	**18.9 - 21%**
Solvent naphtha (petroleum), heavy aromatic	Heavy Aromatic Naphtha Petroleum naphtha	64742-94-5	**18 - 20%**
n-Methylpyrrolidone	1-Methyl-2-pyrrolidone NMP	872-50-4	**1.9 - 1.98%**
Diethanolamine	2,2'-Iminodiethanol DEA	111-42-2	**0.27 - 0.54%**

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

SAFETY DATA SHEET

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. 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 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

: May be fatal if swallowed and enters airways. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Harmful in contact with skin or if inhaled. Inhalation in very high concentrations may result in blood system effects, such as red blood cell fragility. May be absorbed through the skin, producing symptoms similar to inhalation.
Causes skin irritation. Contact may cause redness, swelling and a painful sensation.
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
Suspected of causing cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
May damage the unborn child. Symptoms may include decreased fetal and pup body weight, delayed ossification, skeletal malformations and increased fetal and pup mortality.
Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Prolonged overexposure may cause slight kidney effects, such as increased organ weight.
Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Effects appear to be species specific. Humans are less sensitive to these effects.

Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Provide general supportive measures and treat symptomatically.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO_2); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

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

: Combustible liquid. May be ignited by open flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

SAFETY DATA SHEET

Hazardous combustion products

: Carbon oxides; Sulfur oxides; Nitrogen oxides (NOx); Phosphorus oxides; Polycyclic aromatic hydrocarbons; hydrogen cyanide; formaldehyde; Ammonia; Other unidentified organic compounds.

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. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

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 people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

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. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. .
Refer to Section 13 for disposal of contaminated material.

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.
Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Conditions for safe storage : Store in cool/well-ventilated place. Store locked up. 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. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Do not store near any incompatible materials (see Section 10).

Incompatible materials : Strong oxidizing agents; Acids; Bases; Halogenated compounds

SAFETY DATA SHEET

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Distillates (petroleum), hydrotreated light	200 mg/m³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
2-butoxyethanol	20 ppm	N/Av	50 ppm (240 mg/m³) (skin)	N/Av
Solvent naphtha (petroleum), heavy aromatic	N/Av	N/Av	500 ppm (2000 mg/m³) (as petroleum distillates, naphtha)	N/Av
n-Methylpyrrolidone	10 ppm (skin) (AIHA WEEL)	N/Av	N/Av	N/Av
Diethanolamine	1 mg/m³ (inhalable fraction and vapor) (skin)	N/Av	3 ppm (15 mg/m³) (final rule limit)	N/Av

Exposure controls

Ventilation and engineering measures
: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Refer to CSA Z94.3 or other appropriate standards. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Depending on conditions of use, an impervious apron should be worn. Wear resistant clothing and boots.

Eye / face protection : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations
: Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark yellow liquid.
Odour : Slightly aromatic odour.
Odour threshold : N/Av
pH : 8
Melting/Freezing point : N/Av
Initial boiling point and boiling range
: 137°C (279°F)
Flash point : 71°C (160°F)
Flashpoint (Method) : Tag closed cup
Evaporation rate (BuAe = 1) : 0.1 (butyl acetate = 1)
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.)
: N/Av
Upper flammable limit (% by vol.)
: N/Av
Oxidizing properties : None known.

SAFETY DATA SHEET

Explosive properties : Not explosive
Vapour pressure : < 1 mmHg @ 20°C (68°F)
Vapour density : N/Av
Relative density / Specific gravity
: 0.917
Solubility in water : Soluble
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 : 1.9 cSt @ 40°C (104°F).
Volatiles (% by weight) : < 45%
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Ap
Flame projection length : N/Ap
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive. May also be oxidized by air to form carbamates and n-Oxides.
Chemical stability : Stable under normal conditions. After prolonged storage, may release explosive peroxides in the presence of air. Exposure to sunlight accelerates decomposition.
Possibility of hazardous reactions
: Hazardous polymerization does not occur.
Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials : Strong oxidizing agents; Acids; Bases; Halogenated compounds

Hazardous decomposition products
: Peroxides; Carbamates; n-Oxides. 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

: Harmful if inhaled. May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Inhalation in very high concentrations may result in blood system effects, such as red blood cell fragility.

SAFETY DATA SHEET

Sign and symptoms ingestion : May be fatal if swallowed and enters airways. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin : Harmful in contact with skin. May cause moderate to severe skin irritation. Contact may cause redness, swelling and a painful sensation. May be absorbed and cause symptoms similar to those for inhalation.

Sign and symptoms eyes : Causes serious eye irritation. Causes moderate to severe irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Potential Chronic Health Effects

: Prolonged overexposure may cause slight kidney effects, such as increased organ weight. Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Effects appear to be species specific. Humans are less sensitive to these effects.

Mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Carcinogenicity - Category 2. Suspected of causing cancer. Contains the following chemical(s) listed as Group 2B (possibly carcinogenic) by IARC: Diethanolamine.
No other components are classified as carcinogenic by IARC, ACGIH, OSHA or NTP.

Reproductive effects & Teratogenicity

: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Reproductive toxicity - Category 1B. May damage the unborn child. Contains: 1-Methyl-2-pyrrolidone. Symptoms may include decreased fetal and pup body weight, delayed ossification, skeletal malformations and increased fetal and pup mortality.

Sensitization to material : No data available to indicate product or components may be respiratory sensitizers.
No data available to indicate product or components may be skin sensitizers.

Specific target organ effects : 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 respiratory irritation. May cause drowsiness or dizziness.

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 : No data is available on the product itself. The calculated ATE values for this mixture are:
ATE oral = 2444 mg/kg
ATE dermal = 1624 mg/kg
ATE inhalation (vapours) = 10.4 mg/L/4H
ATE inhalation (mists) = 85.5 mg/L/4H

See below for individual ingredient acute toxicity data.

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Distillates (petroleum), hydrotreated light	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Solvent naphtha (petroleum), heavy aromatic	> 17.1 mg/L (mist)	> 6000 mg/kg	> 3160 mg/kg
n-Methylpyrrolidone	> 5.1 mg/L (aerosol) (No mortality)	3906 mg/kg	> 5000 mg/kg (rat)
Diethanolamine	N/Av	680 mg/kg	8180 mg/kg

Other important toxicological hazards

: None known or reported by the manufacturer.

SAFETY DATA SHEET

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Harmful to aquatic life with long lasting effects. 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: Solvent naphtha (petroleum), heavy aromatic; Diethanolamine.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	1474 mg/L (Rainbow trout)	> 100 mg/L (Zebra fish)	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	3.6 mg/L (Rainbow trout)	N/Av	None.
n-Methylpyrrolidone	872-50-4	> 500 mg/L (Rainbow trout)	N/Av	None.
Diethanolamine	111-42-2	1370 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1.1 mg/L (Daphnia magna)	N/Av	None.
n-Methylpyrrolidone	872-50-4	> 1000 mg/L/24hr (Daphnia magna)	12.5 mg/L	None.
Diethanolamine	111-42-2	55 mg/L (Daphnia magna)	0.78 mg/L	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	7.2 mg/L/72hr (Green algae)	0.22 mg/L/72hr	None.
n-Methylpyrrolidone	872-50-4	> 5000 mg/L/72hr (Green algae)	125 mg/L/72hr	None.
Diethanolamine	111-42-2	2.2 mg/L/96hr (Green algae)	N/Av	None.

Persistence and degradability

: The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: 2-butoxyethanol; N-methyl-2-pyrrolidone; Diethanolamine.
Contains the following chemicals which are not readily biodegradable: Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aromatic.

SAFETY DATA SHEET

Bioaccumulation potential : The product itself has not been tested. See the following data for ingredient information.

Components	Partition coefficent n-octanol/ater (log Kow)	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	5.1 - 8.8	N/Av
2-butoxyethanol (CAS 111-76-2)	0.8	0.97
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	> 3, < 6.5	N/Av
n-Methylpyrrolidone (CAS 872-50-4)	- 0.46	3.16
Diethanolamine (CAS 111-42-2)	- 2.16	3.16

Mobility in soil : The product itself has not been tested.

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 : Refer to protective measures listed in sections 7 and 8.
This material and its container must be disposed of as hazardous waste. 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 in accordance with local regulations. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	None	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	Not regulated	None	
IMDG Additional information	None.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

SAFETY DATA SHEET

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

: Not applicable.

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:
Distillates (petroleum), hydrotreated light (Part 5: Other groups and mixtures)
2-butoxyethanol (Part 1, Group A Substance; Part 5: Individual Substances)
Solvent naphtha (petroleum), heavy aromatic (Part 5: Other groups and mixtures)
N-methyl-2-pyrrolidone (Part 1, Group A Substance)
Diethanolamine (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
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	May be used as a single component chemical under an appropriate group standard
2-butoxyethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	265-198-5	Present	Present	(9)-2578	KE-31656	Present	May be used as a single component chemical under an appropriate group standard
n-Methylpyrrolidone	872-50-4	212-828-1	Present	Present	(5)-113	KE-25324	Present	HSR001384
Diethanolamine	111-42-2	203-868-0	Present	Present	(2)-354; (2)-302	KE-20959	Present	HSR002962

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
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
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory

SAFETY DATA SHEET

KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
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
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
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 2016.
2. International Agency for Research on Cancer Monographs, searched 2016.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

Preparation Date (mm/dd/yyyy)

: 06/21/2016

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for: Radiator Specialty Co. of Canada 1711 Aimco Blvd. Mississauga, ON, Canada, L4W 1H7 Telephone: 905-625-9117 (Mon. - Fri., 8 AM - 4 PM) Please direct all enquiries to Radiator Specialty.	
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	icc ComplianceCenter

DISCLAIMER

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