

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

REGAL R.V. Plumbing Antifreeze -50°C

Version number: 1.1

Date of compilation: 2025-03-27

1 Identification

1.1 Product identifier

Trade name **REGAL R.V. Plumbing Antifreeze -50°C**
Product Code 35-334SCP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Professional use
Industrial use

1.3 Details of the supplier of the safety data sheet

Recochem Inc.
8725 Holgate Crescent,
Milton Ontario
L9T 5G7
Canada

1-800-361-6030 (Monday-Friday, 9 AM to - 5 PM)
www.recochem.com

1.4 Emergency telephone number

Emergency information service

This number is only for transport emergencies.
POISON CONTROL/ANTIPOISON (24 heures/hours):
Alberta 1-800-332-1414 British Columbia 1-800-567-8911 Manitoba 1-855-776-4766 New Brunswick 911 Newfoundland and Labrador 1-866-727-1110 Northwest Territories 1-800-332-1414 Nova Scotia and Prince Edward Island 1-800-565-8161, 1-800-332-1414 or 911.
Nunavut 1-800-268-9017 Ontario 1-800-268-9017 Quebec 1-800-463-5060 Saskatchewan 1-866-454-1212 Yukon Territory 867-393-8700 United States 1-800-222-1222

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|-----------|---------------------------|------------------|
| 2.6 | flammable liquid | 3 | Flam. Liq. 3 | H226 |
| 3.3 | serious eye damage/eye irritation | 2A | Eye Irrit. 2A | H319 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word warning

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- Pictograms

GHS02, GHS07



- Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P280 Wear eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

3 Composition/ Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|-------------------|-----------|---|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| ethanol | CAS No 64-17-5 | 10 – < 30 | Flam. Liq. 2 / H225 Eye Irrit. 2A / H319 | |

Remarks

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.
This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

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4 First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

none In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

not required

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Control of the effects

Protect against external exposure, such as frost

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

8 Exposure controls/ Personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|----------------------|---------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| CA | 1,2-propylene glycol | 57-55-6 | OEL (ON) | | 10 | | | | | aerosol | Regulation |

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| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-------------------------|---------|----------------|--------------|--------------------|---------------|---------------------|-------------------------|-------------------------------|--------------|-----------------|
| Cou ntry | Name of agent | CAS No | Iden tifier | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m³] | Nota tion | Sourc e |
| | | | | | | | | | | | 833 |
| CA | 1,2-propylene glycol | 57-55-6 | OEL (ON) | 50 | 155 | | | | | va | Regulation 833 |
| CA | ethanol | 64-17-5 | OEL (BC) | | | 1,000 | | | | | "BC Regulation" |
| CA | ethanol | 64-17-5 | OEL (ON-MoL) | | | 1,000 | | | | | MoL |
| CA | ethanol (ethyl alcohol) | 64-17-5 | OEL (AB) | 1,000 | 1,880 | | | | | | OHS Code |
| CA | ethyl alcohol | 64-17-5 | PEV/VEA | | | 1,000 | | | | | Regulation OHS |

Notation

aerosol as aerosols

Ceiling-C ceiling value is a limit value above which exposure should not occur

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

time-weighted average (unless otherwise specified)

va as vapors and aerosols

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid |
| Color | not determined |
| Odor | characteristic |
| Melting point/freezing point | -97.8 °C |
| Boiling point or initial boiling point and boiling range | 64.7 °C at 1,013 hPa |
| Flammability | flammable liquid in accordance with GHS criteria |
| Lower and upper explosion limit | 2.5 vol% - 13.5 vol% |
| Flash point | 33 °C at 1,013 hPa |
| Auto-ignition temperature | >400 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | 7.5 – 8.5 (25 °C) |
| Kinematic viscosity | not determined |

Solubility(ies)

| | |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|----------------|--------------------|
| Vapor pressure | 169.3 hPa at 25 °C |
|----------------|--------------------|

Density and/or relative density

| | |
|-------------------------|---|
| Density | 0.9556 g/ml |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

9.2 Other information

| | |
|--|------------------------------------|
| Information with regard to physical hazard classes | there is no additional information |
|--|------------------------------------|

Other safety characteristics

| | |
|-------------|---------------------------------|
| Miscibility | Completely miscible with water. |
|-------------|---------------------------------|

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Temperature class (USA, acc. to NEC 500)

T2 (maximum permissible surface temperature on the equipment: 300°C)

10 Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

11 Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

12 Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

13 Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14 Transport information

14.1 UN number

| | |
|-----------|---------|
| UN RTDG | UN 1987 |
| IMDG-Code | UN 1987 |
| ICAO-TI | UN 1987 |

14.2 UN proper shipping name

| | |
|--|------------------|
| UN RTDG | ALCOHOLS, N.O.S. |
| IMDG-Code | ALCOHOLS, N.O.S. |
| ICAO-TI | Alcohols, n.o.s. |
| Technical name (hazardous ingredients) | ethanol |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| UN RTDG | 3 |
| IMDG-Code | 3 |

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ICAO-TI 3

14.4 Packing group

UN RTDG III

IMDG-Code III

ICAO-TI III

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

UN number 1987

Class 3

Packing group III

Danger label(s) 3



Special provisions (SP) 223, 274 (UN RTDG)

Excepted quantities (EQ) E1 (UN RTDG)

Limited quantities (LQ) 5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG)

Marine pollutant -

Danger label(s) 3



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-E, S-D

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR)

Danger label(s) 3



Special provisions (SP) A3, A180

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 L

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15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|-------------------|---------|---------------|---------------------|
| propylene glycol | 57-55-6 | humectant | |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------|---------|------------|---------|
| ethanol | 64-17-5 | A, O | |

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|---------|---------|----------------------|
| ethanol | 64-17-5 | | CA MU TE F3 |

Legend

- CA Carcinogenic
- F3 Flammable - Third Degree
- MU Mutagenic
- TE Teratogenic

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|------------------------|---------|----------------|
| ETHANOL | 64-17-5 | |

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- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|-------------------|---------|------------|
| ethanol | 64-17-5 | T, F |

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals | | | | |
|----------------------------------|---------|-------------------|------------------------|----------------------|
| Name acc. to inventory | CAS No | Conc. | Remarks | Type of the toxicity |
| ethanol (ethyl alcohol) | 64-17-5 | 17.55 wt% | in alcoholic beverages | developmental |
| methanol | 67-56-1 | 0.00000000881 wt% | | developmental |

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 17.55 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 17.55 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

Chronic: chronic hazard
Flammability: flammability hazards
Health: health hazard
Personal protection: personal protective equipment (PPE) for normal use
Physical hazard: reactivity

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|---|
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Health | 0 | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

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National regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| AU | AIIC | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| JP | CSCL-ENCS | all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | all ingredients are listed (ACTIVE) |

Legend

| | |
|------------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

Additional information

The contained substances are listed in the following national inventories:

AICIS (Australia)
DSL/NDL (Canada)
IECSC (China)
EINECS/ELINCS/NLP (Europe)
CSCL-ENCS (Japan)
KECL (Republic of Korea)
INSQ (Mexico)
NZIoC (New Zealand)
PICCS (Philippines)
TCSI (Taiwan)
TSCA (United States)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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16 Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
Restructuring: section 9, section 14

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|--|
| "BC Regulation" | OHS Regulation: Section 5.48 (British Columbia) |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| Cal ARB | California Air Resources Board |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| EPA | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| MoL | Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833 |
| NFPA® | National Fire Protection Association (United States) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OHS Code | Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta) |
| PBT | Persistent, Bioaccumulative and Toxic |
| ppm | Parts per million |
| Regulation 833 | R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents (Ontario) |
| Regulation OHS | Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec) |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |

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| Abbr. | Descriptions of used abbreviations |
|---------|---|
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Hazardous Products Regulations (HPR)

SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.