

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 08-26-2021 Revision date: 05-03-2023 Supersedes: 08-26-2021 Version: 1.1

### **SECTION 1: Identification**

#### 1.1. Product identifier

Product form : Mixture

Trade name : RAPTOR HARDENER
UP Number : UP8435, UP8436
Product group : 2K Hardener

Other means of identification : UP8405, UP8406 and UP8407

#### 1.2. Recommended use and restrictions on use

Recommended use : Hardener

### 1.3. Supplier

#### Distributor

U-POL Canada Limited P.O. Box P.O. BOX 48600 BC V7X 1T2 Vancouver - Canada T 1-800-424-9300

technicalsupport@u-pol.com - www.u-pol.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

### **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture

### Classification (GHS CA)

Flammable liquids Category 2

Serious eye damage/eye irritation Category 2

Skin sensitization, Category 1

Specific target organ toxicity – Single exposure, Category 3, Narcosis

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

H335

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### GHS CA labeling

Hazard pictograms (GHS CA)





Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H225 - Highly flammable liquid and vapor

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

Precautionary statements (GHS CA) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.
P261 - Avoid breathing fume, spray, vapors.

P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P312 - Call a doctor if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use dry sand, extinguishing powder, foam to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

#### 2.4. Unknown acute toxicity (GHS CA)

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Chemical name / Synonyms   | Product identifier   | %       | Classification (GHS CA)  |
|---|--|----------------------|---------|--|
| methyl acetate                              | methyl acetate acetate of methyl / acetic acid methyl ester / acetic acid, methyl ester / devoton / ethyl ester of monoacetil acid / methyl acetate / methyl acetate, anhydrous / methyl acetic ester / methyl ester acetic acid / methyl ethanoate / tereton  | (CAS-No.) 79-20-9    | 45 – 60 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336  |
| hexamethylene diisocyanate oligomers        |  | (CAS-No.) 28182-81-2 | < 45    | Acute Tox. 4 (Inhalation), H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335                                 |
| n-butyl acetate                             | n-butyl acetate 1-acetoxybutane / 1-butyl acetate / acetate of butyl / acetic acid n-butyl ester / acetic acid normal-butyl ester / acetic acid, butyl ester / BUAC / BuAc (=butyl acetate) / butanolacetate / butyl acetate / butyl ethanoate / n-BuAc / n-butyl acetate / normal-butylacetate / normal- butylethanoate | (CAS-No.) 123-86-4   | < 3     | Flam. Liq. 3, H226<br>STOT SE 3, H336  |
| solvent naphtha (petroleum), light aromatic | solvent naphtha (petroleum), light<br>arom. / solvent naphtha (petroleum),<br>light aromatic   | (CAS-No.) 64742-95-6 | < 3     | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

First-aid measures general : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

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### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Unsuitable extinguishing media

#### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Highly flammable liquid and vapor.

### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action wi

 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapors, spray, fume. Avoid contact with

skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

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

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| hexamethylene-di-isocyanate (822-06-0) |                       |  |
|--|-----------------------|--|
| Canada (Quebec)                        | VEMP (OEL TWA)        | 0.034 mg/m³  |
| Canada (Quebec)                        | VEMP (OEL TWA) [ppm]  | 0.005 ppm  |
| Canada (Quebec)                        | Notations and remarks | EM, S  |
| Canada (Quebec)                        | Regulatory reference  | S-2.1, r. 13 - Regulation respecting occupational health and safety        |
| Alberta                                | OEL TWA               | 0.03 mg/m <sup>3</sup>   |
| Alberta                                | OEL TWA [ppm]         | 0.005 ppm  |
| Alberta                                | Regulatory reference  | Alberta Regulation 87/2009 (Alberta Regulation 150/2020)                   |
| British Columbia                       | OEL STEL [ppm]        | 0.01 ppm   |
| British Columbia                       | OEL TWA [ppm]         | 0.005 ppm  |
| British Columbia                       | Notations and remarks | S(R) (respiratory sensitization)   |
| British Columbia                       | Regulatory reference  | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Manitoba                               | OEL TWA [ppm]         | 0.005 ppm (IFV - Inhalable fraction and vapor)                             |
| Manitoba                               | Notations and remarks | TLV® Basis: URT irr; resp sens. Notations: BEI                             |
| Manitoba                               | Regulatory reference  | ACGIH  |
| New Brunswick                          | OEL TWA [ppm]         | 0.005 ppm  |

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| hexamethylene-di-isocyana  | • •                   |   |
|----------------------------|-----------------------|---|
| New Brunswick              | Notations and remarks | URT irr; resp sens  |
| Newfoundland & Labrador    | OEL TWA [ppm]         | 0.005 ppm (IFV - Inhalable fraction and vapor)  |
| Newfoundland & Labrador    | Notations and remarks | TLV® Basis: URT irr; resp sens. Notations: BEI  |
| Newfoundland & Labrador    | Regulatory reference  | ACGIH   |
| Nova Scotia                | OEL TWA [ppm]         | 0.005 ppm (IFV - Inhalable fraction and vapor)  |
| Nova Scotia                | Notations and remarks | TLV® Basis: URT irr; resp sens. Notations: BEI  |
| Nova Scotia                | Regulatory reference  | ACGIH   |
| Nunavut                    | OEL STEL [ppm]        | 0.015 ppm   |
|                            |                       | 1.0   |
| Nunavut                    | OEL TWA [ppm]         | 0.005 ppm   |
| Nunavut                    | Regulatory reference  | Occupational Health and Safety Regulations, Nu Reg<br>003-2016  |
| Northwest Territories      | OEL STEL [ppm]        | 0.015 ppm   |
| Northwest Territories      | OEL TWA [ppm]         | 0.005 ppm   |
| Northwest Territories      | Regulatory reference  | Occupation Health and Safety Regulations R-039-<br>2015 (R-013-2020)  |
| Ontario                    | OEL Ceiling [ppm]     | 0.02 ppm  |
| Ontario                    | OEL TWA [ppm]         | 0.005 ppm   |
| Ontario                    | Regulatory reference  | Ontario Occuational Exposure Limits under Regulation 833  |
| Prince Edward Island       | OEL TWA [ppm]         | 0.005 ppm (IFV - Inhalable fraction and vapor)  |
| Prince Edward Island       | Notations and remarks | TLV® Basis: URT irr; resp sens. Notations: BEI  |
| Prince Edward Island       | Regulatory reference  | ACGIH   |
| Saskatchewan               | OEL STEL [ppm]        | 0.015 ppm   |
| Saskatchewan               | OEL TWA [ppm]         | 0.005 ppm   |
| Saskatchewan               | Regulatory reference  | The Occupational Health and Safety Regulations,   |
| Custianistic               | regulatory relevance  | 1996. Chapter O-1.1 Reg 1   |
| n-butyl acetate (123-86-4) | ,                     |   |
| Canada (Quebec)            | VECD (OEL STEL) [ppm] | 150 ppm   |
| Canada (Quebec)            | VEMP (OEL TWA) [ppm]  | 50 ppm  |
| Canada (Quebec)            | Regulatory reference  | S-2.1, r. 13 - Regulation respecting occupational health and safety   |
| Alberta                    | OEL STEL              | 950 mg/m³   |
| Alberta                    | OEL STEL [ppm]        | 200 ppm   |
| Alberta                    | OEL TWA               | 713 mg/m³   |
| Alberta                    | OEL TWA [ppm]         | 150 ppm   |
| Alberta                    | Notations and remarks | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. |
| Alberta                    | Regulatory reference  | Alberta Regulation 87/2009 (Alberta Regulation 150/2020)  |
| British Columbia           | OEL STEL [ppm]        | 150 ppm   |
| British Columbia           | OEL TWA [ppm]         | 50 ppm  |
| British Columbia           | Regulatory reference  | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  |
| Manitoba                   | OEL STEL [ppm]        | 150 ppm   |
| Manitoba                   | OEL TWA [ppm]         | 50 ppm  |
| Manitoba                   | Notations and remarks | TLV® Basis: Eye & URT irr   |
| Manitoba                   | Regulatory reference  | ACGIH   |
| Newfoundland & Labrador    | OEL STEL [ppm]        | 150 ppm   |
| Newfoundland & Labrador    | OEL TWA [ppm]         | 50 ppm  |
| Newfoundland & Labrador    | Notations and remarks | TLV® Basis: Eye & URT irr   |
| Newfoundland & Labrador    | Regulatory reference  | ACGIH   |
| Nova Scotia                | OEL STEL [ppm]        | 150 ppm   |
| INUVA JUUIIA               | OLL STEE [ppin]       | ισο ρριτι   |

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| n-butyl acetate (123-86-4)                      |   |  |
|---|---|--|
| Nova Scotia                                     | OEL TWA [ppm]   | 50 ppm   |
| Nova Scotia                                     | Notations and remarks                                       | TLV® Basis: Eye & URT irr  |
| Nova Scotia                                     | Regulatory reference  | ACGIH  |
| Nunavut   | OEL STEL [ppm]  | 200 ppm  |
| Nunavut   | OEL TWA [ppm]   | 150 ppm  |
| Nunavut   | Regulatory reference  | Occupational Health and Safety Regulations, Nu Reg 003-2016  |
| Northwest Territories                           | OEL STEL [ppm]  | 200 ppm  |
| Northwest Territories                           | OEL TWA [ppm]   | 150 ppm  |
| Northwest Territories                           | Regulatory reference  | Occupation Health and Safety Regulations R-039-2015 (R-013-2020)   |
| Ontario   | OEL STEL [ppm]  | 200 ppm  |
| Ontario   | OEL TWA [ppm]   | 150 ppm  |
| Ontario   | Regulatory reference  | Ontario Occuational Exposure Limits under Regulation 833   |
| Prince Edward Island                            | OEL STEL [ppm]  | 150 ppm  |
| Prince Edward Island                            | OEL TWA [ppm]   | 50 ppm   |
| Prince Edward Island                            | Notations and remarks                                       | TLV® Basis: Eye & URT irr  |
| Prince Edward Island                            | Regulatory reference  | ACGIH  |
| Saskatchewan                                    | OEL STEL [ppm]  | 200 ppm  |
| Saskatchewan                                    | OEL TWA [ppm]   | 150 ppm  |
|   |   | ···  |
| Saskatchewan                                    | Regulatory reference  | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1  |
| methyl acetate (79-20-9)                        |   |  |
| Canada (Quebec)                                 | VECD (OEL STEL)   | 757 mg/m³  |
| Canada (Quebec) Canada (Quebec)                 | VECD (OEL STEL) [ppm] VEMP (OEL TWA)                        | 250 ppm<br>606 mg/m³   |
| Canada (Quebec)                                 | VEMP (OEL TWA)  VEMP (OEL TWA) [ppm]                        | 200 ppm  |
| Canada (Quebec)                                 | Regulatory reference  | S-2.1, r. 13 - Regulation respecting occupational health and safety  |
| Alberta   | OEL STEL  | 757 mg/m³  |
| Alberta   | OEL STEL [ppm]  | 250 ppm  |
| Alberta   | OEL TWA   | 606 mg/m³  |
| Alberta   | OEL TWA [ppm]   | 200 ppm  |
| Alberta   | Regulatory reference  | Alberta Regulation 87/2009 (Alberta Regulation 150/2020)   |
| British Columbia                                | OEL STEL [ppm]  | 250 ppm  |
| British Columbia                                | OEL TWA [ppm]   | 200 ppm  |
| British Columbia                                | Regulatory reference  | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)   |
| Manitoba  | OEL STEL [ppm]  | 250 ppm  |
| Manitoba  | OEL TWA [ppm]   | 200 ppm  |
| Manitoba  | Notations and remarks                                       | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)  |
| Manitoba  | Regulatory reference  | ACGIH  |
| New Brunswick                                   | OEL STEL [ppm]  | 250 ppm  |
| New Brunswick                                   | OEL TWA [ppm]   | 200 ppm  |
| New Brunswick                                   | Notations and remarks                                       | eye & URT irr  |
| Newfoundland & Labrador                         | OEL STEL [ppm]  | 250 ppm  |
|   | OEL TWA [ppm]   | 200 ppm  |
| Newfoundland & Labrador                         |   | The state of the s |
| Newfoundland & Labrador Newfoundland & Labrador | Notations and remarks                                       | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)  |
|   |   | (degeneration of ganglion cells in the retina)   |
| Newfoundland & Labrador                         | Notations and remarks  Regulatory reference  OEL STEL [ppm] |  |

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| methyl acetate (79-20-9) |                       |   |
|--------------------------|-----------------------|---|
| Nova Scotia              | OEL TWA [ppm]         | 200 ppm   |
| Nova Scotia              | Notations and remarks | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina) |
| Nova Scotia              | Regulatory reference  | ACGIH   |
| Nunavut                  | OEL STEL [ppm]        | 250 ppm   |
| Nunavut                  | OEL TWA [ppm]         | 200 ppm   |
| Nunavut                  | Regulatory reference  | Occupational Health and Safety Regulations, Nu Reg<br>003-2016                                  |
| Northwest Territories    | OEL STEL [ppm]        | 250 ppm   |
| Northwest Territories    | OEL TWA [ppm]         | 200 ppm   |
| Northwest Territories    | Regulatory reference  | Occupation Health and Safety Regulations R-039-<br>2015 (R-013-2020)                            |
| Ontario                  | OEL STEL [ppm]        | 250 ppm   |
| Ontario                  | OEL TWA [ppm]         | 200 ppm   |
| Ontario                  | Regulatory reference  | Ontario Occuational Exposure Limits under Regulation 833  |
| Prince Edward Island     | OEL STEL [ppm]        | 250 ppm   |
| Prince Edward Island     | OEL TWA [ppm]         | 200 ppm   |
| Prince Edward Island     | Notations and remarks | TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina) |
| Prince Edward Island     | Regulatory reference  | ACGIH   |
| Saskatchewan             | OEL STEL [ppm]        | 250 ppm   |
| Saskatchewan             | OEL TWA [ppm]         | 200 ppm   |
| Saskatchewan             | Regulatory reference  | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1                       |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):







# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Colorless
Odor : characteristic
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available

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Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable
Freezing point : No data available

Boiling point :  $57 \,^{\circ}\text{C}$  Flash point :  $-13 \,^{\circ}\text{C}$ 

: No data available Auto-ignition temperature Decomposition temperature : No data available Flammability : Not applicable Vapor pressure : No data available Vapor pressure at 50°C : No data available Relative density : No data available : 1.02 g/cm<sup>3</sup> Density Solubility No data available Partition coefficient n-octanol/water (Log Pow) : No data available **Explosion limits** : No data available

### 9.2. Other information

As Packaged Regulatory VOC : 113 g/l (0.9 lbs/gal)
As Packaged Actual VOC : 50.8 g/l (0.4 lbs/gal)

 Water Content
 0 wt%

 Exempt Compounds by volume
 : 55.02 vol %

 Exempt Compounds by weight
 : 50.25 wt%

 Volatiles
 : 55.23 wt%

 % EPA HAPS
 : 0.07 wt%

 Percent Solids
 : 44.78 wt%

### **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Reactivity : Highly flammable liquid and vapor.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| n-butyl acetate (123-86-4)      |   |
|---------------------------------|---|
| LD50 oral rat                   | 10760 – 12789 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s))    |
| LD50 dermal rabbit              | > 14112 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))     |
| LC50 Inhalation - Rat           | 23.4 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Inhalation (mixture of vapour and aerosol), 14 day(s)) |
| LC50 Inhalation - Rat [ppm]     | 390 ppm/4h  |
| LC50 Inhalation - Rat (Vapours) | > 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours)   |
| ATE CA (oral)                   | 10760 mg/kg body weight   |
| ATE CA (Gases)                  | 390 ppmV/4h   |
| ATE CA (vapors)                 | 23.4 mg/l/4h  |
| ATE CA (dust,mist)              | 23.4 mg/l/4h  |

| solvent naphtha (petroleum), light aromatic (64742-95-6)   |   |  |
|--|---|--|
| LD50 oral rat  | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |  |
| LD50 dermal rabbit> 3160 mg/kg (OECD Test Guideline 402)LC50 Inhalation - Rat (Vapours)> 6.193 mg/l/4h (4 h, OECD Test Guideline 403, vapours) |   |  |

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|--|---|--|
|  |   |  |
| hexamethylene diisocyanate oligomers (28182-81-2)  LD50 oral rat > 2500 mg/kg (OECD Test Guideline 423, rat. female)   |   |  |
| LD50 dermal rat  | > 2500 mg/kg (OECD Test Guideline 423, rat, female)   |  |
|  | > 2000 mg/kg (OECD Test Guideline 402, rat, male/female)  |  |
| LC50 Inhalation - Rat (Dust/Mist)  | 0.39 mg/l/4h (OECD Test Guideline 403, rat, female, inhalation, dust/mist)  |  |
| ATE CA (Gases)   | 4500 ppmV/4h  |  |
| ATE CA (dust roist)  | 11 mg/l/4h  |  |
| ATE CA (dust,mist)   | 0.39 mg/l/4h  |  |
| methyl acetate (79-20-9)   | 6400 mg/kg hady weight Animaly set Animal pays male Cuidelines OECD Cuideline 404   |  |
| LD50 oral rat  | 6482 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |  |
| LD50 dermal rat  | > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)),<br>Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |  |
| LC50 Inhalation - Rat  | 49 mg/l   |  |
| ATE CA (oral)  | 6482 mg/kg body weight  |  |
| ATE CA (vapors)  | 49 mg/l/4h  |  |
| ATE CA (dust,mist)   | 49 mg/l/4h  |  |
| Skin corrosion/irritation  | : Not classified  |  |
| Serious eye damage/irritation  | : Causes serious eye irritation.  |  |
| Respiratory or skin sensitization  | : May cause an allergic skin reaction.  |  |
| Germ cell mutagenicity   | : Not classified  |  |
| Carcinogenicity  | : Not classified  |  |
|  |   |  |
| STOT-single exposure   | : May cause drowsiness or dizziness. May cause respiratory irritation.  |  |
| n-butyl acetate (123-86-4)   |   |  |
|  | : May cause drowsiness or dizziness. May cause respiratory irritation.  May cause drowsiness or dizziness.  |  |
| n-butyl acetate (123-86-4)   | May cause drowsiness or dizziness.  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  | May cause drowsiness or dizziness.  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers (   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.   |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers (   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  |  |
| n-butyl acetate (123-86-4)  STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9)  | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.   |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure   | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9)   | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9) LOAEC (inhalation,rat,vapor,90 days)  | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  2000 mg/l   |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9)   | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  |  |
| n-butyl acetate (123-86-4)  STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers (STOT-single exposure  methyl acetate (79-20-9)  STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9)  LOAEC (inhalation,rat,vapor,90 days)  NOAEC (inhalation,rat,vapor,90 days)  Aspiration hazard   | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  2000 mg/l 1057 mg/m³  : Not classified  |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9) LOAEC (inhalation,rat,vapor,90 days) NOAEC (inhalation,rat,vapor,90 days) Aspiration hazard  Symptoms/effects                                   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  2000 mg/l 1057 mg/m³  : Not classified  : May cause drowsiness or dizziness.   |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9) LOAEC (inhalation,rat,vapor,90 days) NOAEC (inhalation,rat,vapor,90 days) Aspiration hazard  Symptoms/effects Symptoms/effects after inhalation | May cause drowsiness or dizziness.  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  2000 mg/l 1057 mg/m³  : Not classified  : May cause drowsiness or dizziness.  : May cause respiratory irritation. |  |
| n-butyl acetate (123-86-4) STOT-single exposure  solvent naphtha (petroleum), light aroma STOT-single exposure  hexamethylene diisocyanate oligomers ( STOT-single exposure  methyl acetate (79-20-9) STOT-single exposure  STOT-repeated exposure  methyl acetate (79-20-9) LOAEC (inhalation,rat,vapor,90 days) NOAEC (inhalation,rat,vapor,90 days) Aspiration hazard  Symptoms/effects                                   | May cause drowsiness or dizziness.  Itic (64742-95-6)  May cause drowsiness or dizziness. May cause respiratory irritation.  28182-81-2)  May cause respiratory irritation.  May cause drowsiness or dizziness.  : Not classified  2000 mg/l 1057 mg/m³  : Not classified  : May cause drowsiness or dizziness.   |  |

# **SECTION 12: Ecological information**

| 40.4 |   | _   |       |
|------|---|-----|-------|
| 12.1 | _ | Tox | ICITY |
|      |   |     |       |

: The product is not considered harmful to aquatic organisms or to cause long-term adverse Ecology - general

effects in the environment.

Hazardous to the aquatic environment, short-

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

| n-butyl acetate (123-86-4) |   |
|----------------------------|---|
| LC50 - Fish [1]            | 18 mg/l Test organisms (species): Pimephales promelas |

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| n-butyl acetate (123-86-4)                                    |  |  |
|---|--|--|
| LC50 - Fish [2]   | 62 mg/l (Leuciscus idus, static system)  |  |
| EC50 - Crustacea [1]  | 44 mg/l Test organisms (species): Daphnia sp.  |  |
| ErC50 algae   | 397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) |  |
| NOEC (chronic)  | nic) 23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |  |
| NOEC chronic crustacea 23 mg/l                                |  |  |
| Partition coefficient n-octanol/water (Log Pow)               | 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)  |  |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |  |

| solvent naphtha (petroleum), light aromatic (6  | 4742-95-6) |
|---|------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.1 – 6    |

| methyl acetate (79-20-9)                                      |  |
|---|--|
| LC50 - Fish [1]   | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]  | 1026.7 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]  | > 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| BCF - Fish [1]  | < 1 (Pisces, Literature study)   |
| Partition coefficient n-octanol/water (Log Pow)               | 0.18 (Experimental value, 20 °C)   |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |

# 12.2. Persistence and degradability

| n-butyl acetate (123-86-4)    |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD                          | 2.21 g O₂/g substance           |

| solvent naphtha (petroleum), light aromatic (64742-95-6) |   |
|--|---|
| Persistence and degradability                            | May cause long-term adverse effects in the environment. |
| methyl acetate (79-20-9)                                 |   |
| Persistence and degradability                            | Readily biodegradable in water.                         |

# 12.3. Bioaccumulative potential

| n-butyl acetate (123-86-4)                                    |   |
|---|---|
| Bioaccumulative potential                                     | Low potential for bioaccumulation (Log Kow < 4).  |
| Partition coefficient n-octanol/water (Log Pow)               | 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)                                    |

| , <b>o</b> ,   |                  |
|--|------------------|
| solvent naphtha (petroleum), light aromatic (64742-95-6) |                  |
| Bioaccumulative potential                                | Not established. |
| Partition coefficient n-octanol/water (Log Pow)          | 21-6             |

| methyl acetate (79-20-9)                                      |  |
|---|--|
| Bioaccumulative potential                                     | Low potential for bioaccumulation (Log Kow < 4).   |
| BCF - Fish [1]  | < 1 (Pisces, Literature study)   |
| Partition coefficient n-octanol/water (Log Pow)               | 0.18 (Experimental value, 20 °C)   |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |

# 12.4. Mobility in soil

Partition coefficient n-octanol/water (Log Pow)

| n-butyl acetate (123-86-4)  |  |  |
|---|--|--|
| Surface tension   | rface tension 61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions) |  |
| Ecology - soil Highly mobile in soil. Not toxic to plants.  |  |  |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc)   | 1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)                           |  |
| Partition coefficient n-octanol/water (Log Pow) 2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 2°C) |  |  |
| solvent naphtha (petroleum), light aromatic (64742-95-6)  |  |  |

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| methyl acetate (79-20-9)                                      |  |
|---|--|
| Surface tension   | 24 mN/m (20 °C)  |
| Ecology - soil  | Highly mobile in soil.   |
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Partition coefficient n-octanol/water (Log Pow)               | 0.18 (Experimental value, 20 °C)   |

#### 12.5. Other adverse effects

Ozone : Not classified

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

### **SECTION 14: Transport information**

### 14.1. Basic shipping description

In accordance with TDG

#### **Transportation of Dangerous Goods**

UN-No. (TDG) : UN1263

Packing group (TDG) : II - Medium Danger

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Transport document description (TDG) : UN1263 PAINT RELATED MATERIAL, 3, II

Proper Shipping Name (TDG) : PAINT RELATED MATERIAL

Hazard labels (TDG) : 3 - Flammable Liquids



**TDG Special Provisions** 

59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass).
 142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment:

(a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material;

(b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable:

(c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and

(d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment

containing both printing ink and printing ink related material.

Explosive Limit and Limited Quantity Index : 5 L

Excepted quantities (TDG) : E2

Passenger Carrying Road Vehicle or Passenger : 5 L

# 14.2. Transport information/DOT

### **Department of Transport**

Carrying Railway Vehicle Index

DOT NA No : UN1263 UN-No.(DOT) : 1263

Packing group (DOT) : II - Medium Danger

Transport document description (DOT) : UN1263 Paint related material, 3, II

Proper Shipping Name (DOT) : Paint related material

Contains Statement Field Selection (DOT)

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Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Division (DOT) : 3

Hazard labels (DOT) : 3 - Flammable liquid



Marine pollutant : NO
Dangerous for the environment : No

DOT Special Provisions (49 CFR 172.102)

: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" may be used for consignments of packages containing "Printing ink" and "Printing ink related material" in the same package.

383 - Packages containing toy plastic or paper caps for toy pistols described as "UN0349, Articles, explosive, n.o.s. (Toy caps), 1.4S" or "NA0337, Toy caps, 1.4S" are not subject to the subpart E (labeling) requirements of this part when offered for transportation by motor vehicle, rail freight, cargo vessel, and cargo aircraft and, notwithstanding the packing method assigned in §173.62 of this subchapter, in conformance with the following conditions:

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions:

- a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter.
- b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials.
- c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness.
- d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal................ 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail : 5 L
(49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

#### 14.3. Air and sea transport

#### **IMDG**

UN-No. (IMDG) : 1263

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Transport document description (IMDG) : UN 1263 PAINT RELATED MATERIAL, 3, II

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

#### **IATA**

UN-No. (IATA) : 1263
Proper Shipping Name (IATA) : Paint

Transport document description (IATA) : UN 1263 Paint, 3, II
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

### SECTION 15: Regulatory information

### 15.1. National regulations

#### n-butyl acetate (123-86-4)

Listed on the Canadian DSL (Domestic Substances List)

## solvent naphtha (petroleum), light aromatic (64742-95-6)

Listed on the Canadian DSL (Domestic Substances List)

### hexamethylene diisocyanate oligomers (28182-81-2)

Listed on the Canadian DSL (Domestic Substances List)

# methyl acetate (79-20-9)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. International regulations

### n-butyl acetate (123-86-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### solvent naphtha (petroleum), light aromatic (64742-95-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### hexamethylene diisocyanate oligomers (28182-81-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### methyl acetate (79-20-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# **SECTION 16: Other information**

 Issue date
 : 08-26-2021

 Revision date
 : 05-03-2023

 Supersedes
 : 08-26-2021

#### Full text of H-phrases:

| H225 | Highly flammable liquid and vapor            |
|------|--|
| H226 | Flammable liquid and vapor                   |
| H304 | May be fatal if swallowed and enters airways |
| H317 | May cause an allergic skin reaction          |
| H319 | Causes serious eye irritation                |
| H332 | Harmful if inhaled                           |
| H335 | May cause respiratory irritation             |

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| H336 | May cause drowsiness or dizziness               |
|------|---|
| H411 | Toxic to aquatic life with long lasting effects |

### SDS Canada U-POL

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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