## SECTION: 1. Product and company identification

### 1.1.Product identifier

Trade name/designation : James Stainspray

Product code : 8700.0_76068RT80

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

Main use category : Consumer use,Professional uses

### 1.3.Details of the supplier of the safety data sheet

Company : James North America LLC
200 East Randolph Street
Suite 5100-38
Chicago, Illinios 60601
Telephone 1-312-436-0437
E-mail: info@jamescleaner.com

### 1.4.Emergency telephone number

Emergency telephone : US: 1-800-222-1222
Canada - Alberta: 1-800-332-1414
Canada - British Columbia: 1-800-567-8911
Canada - Manitoba: 1-855-776-4766
Canada - New Brunswick: 911
Canada - Newfoundland and Labrador: 1-866-727-1110
Canada - Northwest Territories: 1-800-332-1414
Canada - Nova Scotia: 1-800-565-8161
Canada - Nunavut: 1-800-268-9017
Canada - Ontario: 1-800-268-9017
Canada - Prince Edward Island: 1-800-565-8161
Canada - Quebec: 1-800-463-5060
Canada - Saskatchewan: 1-866-454-1212
Canada - Yukon: 1-867-393-8700

## SECTION: 2. Hazards identification

### 2.1.Classification of the substance or mixture

OSHA Regulatory Status : This material is classified as hazardous under OSHA regulations.

GHS-US classification : Flammable aerosol Category 1

GHS-US classification : Specific target organ toxicity (single exposure) Category 3

### 2.2.Label elements

Hazard pictograms (GHS US) :

GHS02 GHS07

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Extremely flammable aerosol
Pressurized container: may burst if heated
May cause drowsiness or dizziness

Precautionary statements (GHS US) : If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
If inhaled: Remove person to fresh air and keep comfortable for breathing
Call a poison center or doctor if you feel unwell
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to an approved waste disposal plant

**2.3.Other hazards**

Other hazards which do not result in classification : Repeated exposure may cause skin dryness or cracking

## SECTION: 3. Composition/Information on ingredients

| Substance name | CAS-No. | % |
|---|---|---|
| n-butyl acetate | 123-86-4 | 20 - 30 |
| ethyl acetate | 141-78-6 | 20 - 30 |
| butane | 106-97-8 | 20 - 30 |
| 1-methoxy-2-propanol, monopropylene glycol methyl ether | 107-98-2 | 10 - 20 |
| propane | 74-98-6 | 10 - 20 |

## SECTION: 4. First aid measures

**4.1.Description of first aid measures**

Inhalation : Remove person to fresh air and keep comfortable for breathing.
In case of doubt or persistent symptoms, consult always a physician

Skin contact : Take off contaminated clothing.
Gently wash with plenty of soap and water.
In case of doubt or persistent symptoms, consult always a physician

Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
In case of doubt or persistent symptoms, consult always a physician

Ingestion : Rinse mouth thoroughly with water.
Get medical advice/attention.

First-aid measures general : First aider: Pay attention to self-protection!
Concerning personal protective equipment to use, see item 8
Never give anything by mouth to an unconscious person
In case of doubt or persistent symptoms, consult always a physician
Show this safety data sheet to the doctor in attendance.

**4.2.Most important symptoms and effects, both acute and delayed**

Inhalation : May cause drowsiness or dizziness. Shortness of breath.

Skin contact : Repeated or prolonged contact may cause slight irritation to the skin or cracking.

Eye contact : Blurred vision redness, itching, tears.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**4.3.Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

## SECTION: 5. Firefighting measures

**5.1.Extinguishing media**

Suitable extinguishing media : Water spray alcohol resistant foam Dry extinguishing powder Carbon dioxide

For safety reasons unsuitable extinguishing agents : Strong water jet

**5.2.Special hazards arising from the substance or mixture**

Fire hazard : Extremely flammable aerosol.

Specific hazards : Ignition risk
vapors are heavier than air and may spread along floors
Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors
Aerosol cans may rupture and become projectiles.
In use, may form flammable/explosive vapor-air mixture.
Do not spray on a naked flame or any incandescent material
On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks
In case of fire, do not breathe fumes.
Fire will produce hazardous combustion products. (COx)

**5.3. Advice for firefighters**

Advice for firefighters : Special protective equipment for firefighters.
In case of fire: Wear self-contained breathing apparatus.
Use water spray or fog for cooling exposed containers
Do not allow run-off from fire-fighting to enter drains or water courses.
Dispose of waste in accordance with environmental legislation
Evacuate personnel to a safe area

## SECTION: 6. Accidental release measures

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

For non-emergency personnel : Evacuate personnel to a safe area
Stay upwind/keep distance from source.
Provide adequate ventilation
Use personal protective equipment as required.
Concerning personal protective equipment to use, see item 8
Do not breathe vapor/aerosol
Avoid contact with skin, eyes and clothing
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Use only non-sparking tools.

Do not allow to enter into surface water or drains
Notify authorities if product enters sewers or public waters

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place
Concerning personal protective equipment to use, see item 8.

**6.2.Methods and material for containment and cleaning up**

Spill or leak statements by chemical : Stop leak if safe to do so.
Dam up the liquid spill.

## SECTION: 7. Handling and storage

**7.1.Precautions for safe handling**

Handling : Provide adequate ventilation
Use personal protective equipment as required.
Concerning personal protective equipment to use, see item 8
Do not breathe vapor/aerosol
Avoid contact with skin, eyes and clothing
Take any precaution to avoid mixing with incompatible materials.
See also section 10
Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
Do not allow contact with soil, surface or ground water.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Pressurised container: May burst if heated.

Advices on general occupational hygiene : Keep good industrial hygiene
Wash hands before breaks and immediateley after using the product.
When using do not eat, drink or smoke.
Keep away from food, drink and animal feedingstuffs
Keep work clothes separately.
Take off contaminated clothing.
Wash contaminated clothing before reuse.

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

Storage : Flammable aerosols
Keep in a dry, cool and well-ventilated place.
Do not store near or with any of the incompatible materials listed in section 10.
Bund storage facilities to prevent soil and water pollution in the event of spillage.
Protect from sunlight.
Remove all sources of ignition
Keep at temperature not exceeding 50

Packaging materials : Keep/Store only in original container.

## SECTION: 8. Exposure controls/personal protection

**8.1. Exposure guidelines**

| **James Stainspray** | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | No data available |
| **n-butyl acetate (123-86-4)** | | |
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | ACGIH STEL (ppm) | 150 ppm |
| IDLH | US IDLH (ppm) | 1700 ppm (10% LEL) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 710 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 150 ppm |
| NIOSH | NIOSH REL (STEL) (mg/m³) | 950 mg/m³ |
| NIOSH | NIOSH REL (STEL) (ppm) | 200 ppm |
| OSHA | OSHA PEL (TWA) (mg/m³) | 710 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 150 ppm |
| Québec | VECD (mg/m³) | 950 mg/m³ |
| Québec | VECD (ppm) | 200 ppm |
| Québec | VEMP (mg/m³) | 713 mg/m³ |
| Québec | VEMP (ppm) | 150 ppm |

| **ethyl acetate (141-78-6)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 400 ppm |
| IDLH | US IDLH (ppm) | 2000 ppm (10% LEL) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1400 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 400 ppm |
| OSHA | OSHA PEL (TWA) (mg/m³) | 1400 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| Québec | VEMP (mg/m³) | 1440 mg/m³ |
| Québec | VEMP (ppm) | 400 ppm |

| **butane (106-97-8)** | | |
|---|---|---|
| ACGIH | ACGIH STEL (ppm) | 1000 ppm (explosion hazard (Butane, isomers) |
| IDLH | US IDLH (ppm) | 1600 ppm (>10% LEL) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 800 ppm |
| Québec | VEMP (mg/m³) | 1900 mg/m³ |
| Québec | VEMP (ppm) | 800 ppm |

| **1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | ACGIH STEL (ppm) | 100 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 360 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| NIOSH | NIOSH REL (STEL) (mg/m³) | 540 mg/m³ |
| NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| Québec | VECD (mg/m³) | 553 mg/m³ |
| Québec | VECD (ppm) | 150 ppm |
| Québec | VEMP (mg/m³) | 369 mg/m³ |
| Québec | VEMP (ppm) | 100 ppm |

| **propane (74-98-6)** | | |
|---|---|---|
| IDLH | US IDLH (ppm) | 2100 ppm (10% LEL) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 1800 mg/m³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 1000 ppm |
| OSHA | OSHA PEL (TWA) (mg/m³) | 1800 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| Québec | VEMP (mg/m³) | 1800 mg/m³ |
| Québec | VEMP (ppm) | 1000 ppm |

**8.2. Engineering controls**

Engineering measure(s) : Provide adequate ventilation
Organizational measures to prevent /limit releases, dispersion and exposure
Safe handling: see section 7 .
Use only outdoors or in a well-ventilated area.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges

Environmental exposure controls : Do not allow contact with soil, surface or ground water.
Comply with applicable environmental protection legislation.

**8.3. Personal protective equipment (PPE)**

| | | |
|---|---|---|
| Personal protective equipment | : | The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Respiratory protection | : | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Wear a half mask respirator, NIOSH certified.<br>Wear a full face respirator, NIOSH certified.<br>Filter type: A<br>The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137) |
| Hand protection | : | Wear chemically resistant gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. |
| Eye protection | : | Use suitable eye protection. (EN166): Goggles |
| Body protection | : | Wear suitable protective clothing. |
| Thermal hazard protection | : | Not required for normal conditions of use<br>Use dedicated equipment. |

## SECTION: 9. Physical and chemical properties

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

| | | |
|---|---|---|
| Appearance | : | aerosol,Liquid |
| Color | : | Colorless |
| Odor | : | characteristic |
| Odor threshold | : | No data available |
| pH | : | 6,2 |
| Melting / freezing point | : | No data available |
| Initial boiling point and boiling range | : | -220 °F |
| Flash point | : | 24,8 °F |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | liquid,Extremely flammable aerosol. |
| Upper / lower flammability or explosive limits | : | No data available |
| Vapor pressure | : | No data available |
| Vapor density | : | No data available |
| Specific gravity / density | : | 0,897 mg/cm³ (68°F) |
| Relative density | : | No data available |
| Water solubility | : | No data available |
| Solubility in different media | : | No data available |
| Partition coefficient n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Explosive properties | : | Not applicable,The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties. |
| VOC content | : | 788,4 g/l |

## SECTION: 10. Stability and reactivity

**10.1.Reactivity**

Reactivity : Reference to other sections: 10.4 & 10.5
Extremely flammable aerosol.

**10.2.Chemical stability**

Chemical stability : The product is stable under storage at normal ambient temperatures.

**10.3.Possibility of hazardous reactions**

Possibility of hazardous reactions : Will ignite if exposed to intensive heat and air
Extreme risk of explosion by shock, friction, fire or other sources of ignition

**10.4.Conditions to avoid**

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Safe handling: see section 7
Avoid temperature above 122°F
Direct sunlight

**10.5.Incompatible materials**

Incompatible materials : Oxidising substances Strong acids Strong bases Safe handling: see section 7

**10.6.Hazardous decomposition products**

Hazardous decomposition products : Thermal decomposition generates : Carbon oxides (CO, CO2) Reference to other sections: 5.2

## SECTION: 11. Toxicological information

**11.1.Information on toxicological effects**

Acute toxicity : Not classified

| **n-butyl acetate (123-86-4)** | |
|---|---|
| LD50 oral rat | 10768 mg/kg |
| LD50 dermal rabbit | > 17600 mg/kg |
| LC50 inhalation rat (ppm) | 390 ppm/4h |

| **ethyl acetate (141-78-6)** | |
|---|---|
| LD50 oral rat | 5620 mg/kg |
| LD50 dermal rabbit | > 18000 mg/kg |
| LC50 inhalation rat (ppm) | 4000 ppm/4h |

| **butane (106-97-8)** | |
|---|---|
| LC50 inhalation rat (mg/l) | 658 g/m³ (Exposure time: 4 h) |

| **1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)** | |
|---|---|
| LD50 oral rat | 5000 mg/kg |
| LD50 dermal rabbit | 13 g/kg |
| LC50 inhalation rat (ppm) | 10000 ppm/4h |

| **propane (74-98-6)** | |
|---|---|
| LC50 inhalation rat (ppm) | > 800000 ppm (Exposure time: 15 min) |

Skin corrosion/irritation : Not classified
pH: 6,2

Serious eye damage/irritation : Not classified
pH: 6,2

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

## SECTION 12: Ecological information

### 12.1.Toxicity

Toxicity : Ecological injuries are not known or expected under normal use. Do not allow to enter into surface water or drains

| **n-butyl acetate (123-86-4)** | |
|---|---|
| LC50 fish 1 | 100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| LC50 fish 2 | 17 - 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

| **ethyl acetate (141-78-6)** | |
|---|---|
| LC50 fish 1 | 220 - 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |

| **1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)** | |
|---|---|
| LC50 fish 1 | 20,8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 23300 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

### 12.2.Persistence and degradability

Persistence and degradability : No data available

### 12.3.Bioaccumulative potential

Bioaccumulative potential : No data available

Partition coefficient n-octanol/water : No data available

### 12.4.Mobility in soil

Mobility in soil : No data available

### 12.5.Other adverse effects

Other information : No data available

## SECTION 13: Disposal considerations

**13.1.Waste treatment methods**

Product waste: : Do not allow contact with soil, surface or ground water.
Dispose of empty containers and wastes safely
Safe handling: see section 7
Refer to manufacturer/supplier for information on recovery/recycling.
Recycling is preferred to disposal or incineration
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations

Contaminated packaging : Never use pressure to empty container.
Handle contaminated packages in the same way as the substance itself.
Dispose of contaminated materials in accordance with current regulations
Do not burn, or use a cutting torch on, the empty drum.
Do not puncture or incinerate.

## SECTION 14: Transport information

**14.1. Basic shipping description**

**DOT**

UN-No.(DOT) : 1950
Proper Shipping Name (DOT) : Aerosols
Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT) : 2.1 - Flammable gas


Special provisions : See 173.306 of this subchapter for classification criteria for flammable aerosols.

**14.2 Additional information**

**IMDG**

UN-No. (ADR) : 1950
Class or Division : 2

**ICAO/IATA**

UN-No. (ADR) : 1950
Class or Division : 2

## SECTION: 15. Regulatory information

**15.1. US Federal regulations**

**n-butyl acetate (123-86-4)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CERCLA RQ 5000 lb listed under Butyl acetate

**ethyl acetate (141-78-6)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CERCLA RQ 5000 lb

**butane (106-97-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**propane (74-98-6)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. International regulations**

**15.2.1. CANADA**

**n-butyl acetate (123-86-4)**
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification — Class B Division 2 - Flammable Liquid

**ethyl acetate (141-78-6)**
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification — Class B Division 2 - Flammable Liquid

**butane (106-97-8)**
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification — Class A - Compressed Gas
Class B Division 1 - Flammable Gas

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification — Class B Division 2 - Flammable Liquid

**propane (74-98-6)**
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification — Class A - Compressed Gas
Class B Division 1 - Flammable Gas

**15.2.2. National regulations**

**n-butyl acetate (123-86-4)**
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

**ethyl acetate (141-78-6)**
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

**butane (106-97-8)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

**propane (74-98-6)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 15.3. US State regulations

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

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|---|---|---|---|---|
| No | No | No | No | |

**ethyl acetate (141-78-6)**

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|---|---|---|---|---|
| No | No | No | No | |

**butane (106-97-8)**

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|---|---|---|---|---|

**butane (106-97-8)**

| | | | | |
|---|---|---|---|---|
| No | No | No | No | |

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**

| | | | | |
|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

**propane (74-98-6)**

| | | | | |
|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

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

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - STELs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - STELs
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

**ethyl acetate (141-78-6)**

U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Volatile Substances
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Carolina - Control of Toxic Air Pollutants
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Dangerous Waste - Discarded Chemical Products List
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

**butane (106-97-8)**

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Maine - Chemicals of Concern
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

**butane (106-97-8)**

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Ohio - Accidental Release Prevention - Threshold Quantities
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - STELs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S. - Tennessee - Occupational Exposure Limits - STELs
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs

**1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)**

U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

**propane (74-98-6)**

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Ohio - Accidental Release Prevention - Threshold Quantities
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

## SECTION: 16. Other information

Issue date : 31/07/2019
Supersedes : 04/01/2019

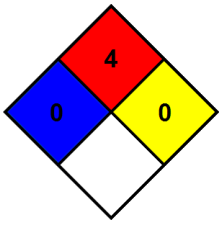
Abbreviations and acronyms : ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
BTT = Breakthrough time (maximum wearing time)
DMEL = Derived Minimal Effect level
DNEL = Derived No Effect Level
EC50 = Median Effective Concentration
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
EWC = European waste catalogue
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
NA = Not applicable
NOEC = No observed effect concentration
NOEL: no-observed-effect level
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
N.O.S. = Not Otherwise Specified
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
PNEC = Predicted No Effect Concentration
Quantitative structure-activity relationship (QSAR)
STOT = Specific Target Organ Toxicity
TWA = time weighted average
VOC = Volatile organic compounds
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

**NFPA-code**

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.




**Hazard Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 4 Severe Hazard
Physical : 0 Minimal Hazard
Personal protection : G

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of

handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.