



SAFETY DATA SHEET

1. Identification

Product identifier: FAST TACK 92 HI-TEMP HEAVY DUTY AUTOMOTIVE HEADLINER ADHESIVE

Other means of identification

SDS number: RE1000035171

Canadian Importer
Advantage Maintenance Products Ltd.
105 Scott Ave
Paris, ON N3L 3E7
(519) 442-7881

Recommended restrictions

Recommended use: Adhesive
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name: SPRAYWAY, INC.
Address: 8001 KEELE ST
CONCORD, ONTARIO L4K 1Y8
Telephone: 800-332-9000

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity - Single Exposure Category 3¹
Aspiration Hazard Category 1

Target Organs

1.Narcotic effect.

Environmental Hazards

Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:



Signal Word: Danger



| | |
|---|---|
| Hazard Statement: | Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects. |
| Precautionary Statements | |
| Prevention: | 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. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection. |
| Response: | IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage. |
| Storage: | 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. |
| Disposal: | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Other hazards which do not result in GHS classification: | None. |

3. Composition/information on ingredients

Mixtures

| Chemical Identity | Common name and synonyms | CAS number | Content in percent (%)* |
|---------------------------|--------------------------|------------|-------------------------|
| Acetic acid, methyl ester | | 79-20-9 | 15 - 40% |
| Methane, 1,1'-oxybis- | | 115-10-6 | 10 - 30% |
| Cyclohexane | | 110-82-7 | 10 - 30% |
| 2-Propanone | | 67-64-1 | 7 - 13% |
| Butane | | 106-97-8 | 7 - 13% |
| Pentane | | 109-66-0 | 3 - 7% |
| Propane | | 74-98-6 | 3 - 7% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

| | |
|--------------------|---|
| Ingestion: | Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Inhalation: | Move to fresh air. |



Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.



Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. 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 contact with skin.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|---------------------------|------------|-----------------------|---|
| Acetic acid, methyl ester | TWA | 200 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Acetic acid, methyl ester | TWA | 200 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Acetic acid, methyl ester | STEL | 250 ppm 757 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (10 2006) |
| | STEL | 250 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 200 ppm 606 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (10 2006) |
| | STEL | 250 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Acetic acid, methyl ester | 8 HR ACL | 200 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Acetic acid, methyl ester | TWA | 200 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011) |
| | 15 MIN ACL | 250 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| | STEL | 250 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011) |
| Acetic acid, methyl ester | STEL | 250 ppm 757 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |
| | TWA | 200 ppm 606 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |
| Acetic acid, methyl ester | STEL | 250 ppm | US. ACGIH Threshold Limit Values, as amended (2008) |
| | TWA | 200 ppm | US. ACGIH Threshold Limit Values, as amended (2008) |
| Methane, 1,1'-oxybis- | TWA | 1,000 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cyclohexane | TWA | 100 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cyclohexane | TWA | 300 ppm 1,030 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (12 2008) |
| Cyclohexane | TWA | 100 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007) |
| Cyclohexane | 8 HR ACL | 100 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Cyclohexane | TWA | 100 ppm 344 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |



| | | | |
|-------------|---------------|-----------------------|---|
| Cyclohexane | TWA | 100 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011) |
| | 15 MIN ACL | 150 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Cyclohexane | TWA | 100 ppm | US. ACGIH Threshold Limit Values, as amended (2008) |
| 2-Propanone | STEL | 750 ppm 1,800 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| 2-Propanone | STEL | 500 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 2-Propanone | TWA | 250 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| | STEL | 500 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| | TWA | 250 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 2-Propanone | TWA | 250 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015) |
| 2-Propanone | 8 HR ACL | 500 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| | STEL | 500 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015) |
| 2-Propanone | STEL | 1,000 ppm 2,380 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |
| | TWA | 500 ppm 1,200 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| | TWA | 500 ppm 1,190 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |
| | 15 MIN ACL | 750 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| 2-Propanone | TWA | 250 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 500 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| Butane | STEL | 1,000 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| Butane | STEL | 750 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017) |
| | TWA | 600 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017) |
| Butane | TWA | 800 ppm 1,900 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (12 2008) |
| Butane | TWA | 1,000 ppm | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Butane | 8 HR ACL | 1,000 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Butane | STEL | 1,000 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2018) |
| | 15 MIN ACL | 1,250 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Butane | STEL | 1,000 ppm | US. ACGIH Threshold Limit Values, as amended (03 2018) |
| Pentane | TWA | 600 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Pentane | TWA | 600 ppm 1,770 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Pentane | 8 HR ACL | 600 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Pentane | TWA | 1,000 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014) |
| Pentane | TWA | 1,000 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| | 15 MIN ACL | 750 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Pentane | TWA | 120 ppm 350 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |



| | | | |
|--|---------------|-----------------------|---|
| Pentane | TWA | 1,000 ppm | US. ACGIH Threshold Limit Values, as amended (02 2014) |
| Propane | TWA | 1,000 ppm | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Propane | 8 HR ACL | 1,000 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Propane | TWA | 1,000 ppm 1,800 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (12 2008) |
| Propane | TWA | 1,000 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | 15 MIN ACL | 1,250 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Magnesium oxide (MgO) - Inhalable fume. | TWA | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Magnesium oxide (MgO) - Respirable dust and/or fume. - as Mg | TWA | 3 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Magnesium oxide (MgO) - Fume. | TWA | 10 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Magnesium oxide (MgO) - Inhalable fraction. | 8 HR ACL | 10 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| | 15 MIN ACL | 20 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Magnesium oxide (MgO) - Inhalable fraction. | TWA | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Magnesium oxide (MgO) - Inhalable fraction. | TWA | 10 mg/m3 | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011) |
| Magnesium oxide (MgO) - Fume. - as Mg | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017) |
| Magnesium oxide (MgO) - Inhalable fraction. | TWA | 10 mg/m3 | US. ACGIH Threshold Limit Values, as amended (2008) |

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.



Hygiene measures: Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Spray Aerosol
Color: No data available.

Odor: No data available.

Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: Estimated -104 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Vapor pressure: 2,757 - 4,136 hPa (20 °C)

Vapor density: No data available.

Density: No data available.

Relative density: No data available.

Solubility(ies)

Solubility in water: No data available.

Solubility (other): 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.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.



11. Toxicological information

Information on likely routes of exposure

| | |
|----------------------|--------------------|
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|----------------------|--------------------|
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 28,088.52 mg/kg

Dermal

Product: ATEmix: 3,758.32 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

| | |
|---------------------------|---|
| Acetic acid, methyl ester | LC 50: > 49.2 mg/l LC 50: > 5 mg/l |
| Cyclohexane | LC 50 (Rat): > 32,880 mg/m ³ |
| 2-Propanone | LC 50 (Rat): 50.1 mg/l |
| Butane | LC 50: > 100 mg/l LC 50: > 100 mg/l |
| Pentane | LC 50: > 100 mg/l LC 50: > 100 mg/l |
| Propane | LC 50: > 100 mg/l LC 50: > 100 mg/l |

Repeated dose toxicity

Product: No data available.



Specified substance(s):

| | |
|---------------------------|---|
| Acetic acid, methyl ester | NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation Experimental result, Key study |
| Methane, 1,1'-oxybis- | NOAEL (Rat(Female, Male), Inhalation, 2 yr): 2.5 %(m) Inhalation Experimental result, Key study |
| Cyclohexane | NOAEL (Rat(Female, Male), Inhalation, 13 - 18 Weeks): 7,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Mouse(Female, Male), Inhalation, 13 - 18 Weeks): 500 ppm(m) Inhalation Experimental result, Key study |
| 2-Propanone | NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study |
| Butane | LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study |
| Pentane | NOAEL (Rat, Inhalation): 3,000 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Rat(Female, Male), Inhalation): 20,000 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Male), Inhalation): 1,000 ppm(m) Inhalation Experimental result, Supporting study LOAEL (Rat(Male), Inhalation): 3,000 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Rat, Inhalation): 30 mg/l Inhalation Read-across based on grouping of substances (category approach), Key study |
| Propane | NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study |

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

| | |
|---------------------------|---|
| Acetic acid, methyl ester | in vivo (Rabbit): Not irritant Experimental result, Key study |
| Cyclohexane | Review (Various): Irritating. in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study |
| 2-Propanone | in vivo (Rabbit): Not irritant Experimental result, Supporting study |
| Pentane | in vivo (Rabbit): Not classified as an Irritant Experimental result, Key study |

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

| | |
|---------------------------|---|
| Acetic acid, methyl ester | Rabbit: Irritating |
| 2-Propanone | Irritating. Rabbit, 24 hrs: Minimum grade of severe eye irritant |
| Pentane | Rabbit, 48 hrs: Not irritating |

Respiratory or Skin Sensitization

Product: No data available.



Specified substance(s):

| | |
|-------------|--|
| Cyclohexane | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| 2-Propanone | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Pentane | Skin sensitization:, in vivo (Guinea pig): Non sensitising |

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

ACGIH Carcinogen List:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):

| | |
|-------------|--|
| Cyclohexane | Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. |
| 2-Propanone | Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. |

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Cyclohexane May be fatal if swallowed and enters airways.

Pentane May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.



Specified substance(s):

| | |
|---------------------------|--|
| Acetic acid, methyl ester | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study |
| Methane, 1,1'-oxybis- | LC 50 (Various, 96 h): 1,783.04 mg/l QSAR QSAR, Supporting study |
| Cyclohexane | LC 50 (Pimephales promelas, 96 h): 4.53 mg/l Experimental result, Key study |
| 2-Propanone | LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study |
| Butane | LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study |
| Pentane | LC 50 (Oncorhynchus mykiss, 96 h): 4.26 mg/l Experimental result, Supporting study |
| Propane | LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study |

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

| | |
|---------------------------|---|
| Acetic acid, methyl ester | EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study |
| Cyclohexane | EC 50 (Daphnia magna, 48 h): 0.9 mg/l Experimental result, Key study |
| 2-Propanone | LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study |
| Butane | LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study |
| Pentane | EC 50 (Daphnia magna, 48 h): 9.1 mg/l Experimental result, Supporting study |

Chronic hazards to the aquatic environment:

Fish

Product: NOEC : Estimated < 1 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

| | |
|-------------|--|
| 2-Propanone | LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study |
| Pentane | NOAEL (Daphnia magna): 10.76 mg/l QSAR QSAR, Key study |

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

| | |
|---------------------------|--|
| Acetic acid, methyl ester | 70 % Detected in water. Experimental result, Key study |
| Methane, 1,1'-oxybis- | 5 % (28 d) Detected in water. Experimental result, Key study |



| | |
|-------------|--|
| Cyclohexane | 77 % (28 d) Detected in water. Experimental result, Key study |
| 2-Propanone | 90.9 % (28 d) Detected in water. Experimental result, Key study |
| Butane | 100 % (385.5 h) Detected in water. Experimental result, Key study |
| Pentane | 65.5 % Detected in water. Experimental result, Key study |
| Propane | 100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study |

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

| | |
|-------------|--|
| Cyclohexane | Cyprinus carpio, Bioconcentration Factor (BCF): 37 - 129 Aquatic sediment Experimental result, Supporting study |
| 2-Propanone | Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment Experimental result, Not specified |
| Pentane | Pimephales promelas, Bioconcentration Factor (BCF): 171 Aquatic sediment QSAR, Key study |

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

| | |
|---------------------------|--------------------|
| Acetic acid, methyl ester | No data available. |
| Methane, 1,1'-oxybis- | No data available. |
| Cyclohexane | No data available. |
| 2-Propanone | No data available. |
| Butane | No data available. |
| Pentane | No data available. |
| Propane | No data available. |

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.



14. Transport information

TDG

| | |
|-------------------------------|---------------------|
| UN Number: | UN 1950 |
| UN Proper Shipping Name: | Aerosols, flammable |
| Transport Hazard Class(es) | |
| Class: | 2.1 |
| Label(s): | – |
| Packing Group: | – |
| Environmental Hazards: | Yes |
| Special precautions for user: | None known. |

IMDG

| | |
|-------------------------------|---------------------|
| UN Number: | UN 1950 |
| UN Proper Shipping Name: | Aerosols, flammable |
| Transport Hazard Class(es) | |
| Class: | 2.1 |
| Label(s): | – |
| EmS No.: | F-D, S-U |
| Packing Group: | – |
| Environmental Hazards: | Yes |
| Special precautions for user: | None known. |

IATA

| | |
|-------------------------------|---------------------|
| UN Number: | UN 1950 |
| Proper Shipping Name: | Aerosols, flammable |
| Transport Hazard Class(es): | |
| Class: | 2.1 |
| Label(s): | – |
| Packing Group: | – |
| Environmental Hazards: | Yes |
| Special precautions for user: | None known. |
| Cargo aircraft only: | Allowed. |

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Chemical Identity

Acetic acid, methyl ester
2-Propanone
Magnesium oxide (MgO)

Export Control List (CEPA 1999, Schedule 3)

Chemical Identity

Acetic acid, methyl ester
2-Propanone

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

| | |
|----------|---|
| NPRI PT5 | Acetic acid, methyl ester Methane, 1,1'-oxybis- 2-Propanone Butane Pentane Propane |
|----------|---|



Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI
Acetic acid, methyl ester
Cyclohexane
2-Propanone
Magnesium oxide (MgO)

Greenhouse Gases

Chemical Identity

Acetic acid, methyl ester
2-Propanone

Controlled Drugs and Substances Act

| | |
|------------|--|
| CA CDSI | Acetic acid, methyl ester 2-Propanone |
| CA CDSII | Acetic acid, methyl ester 2-Propanone |
| CA CDSIII | Acetic acid, methyl ester 2-Propanone |
| CA CDSIV | Acetic acid, methyl ester 2-Propanone |
| CA CDSV | Acetic acid, methyl ester 2-Propanone |
| CA CDSVII | Acetic acid, methyl ester 2-Propanone |
| CA CDSVIII | Acetic acid, methyl ester 2-Propanone |

Precursor Control Regulations

Chemical Identity

Acetic acid, methyl ester
2-Propanone

International regulations

Montreal protocol

Acetic acid, methyl ester
2-Propanone

Stockholm convention

Acetic acid, methyl ester
2-Propanone

Rotterdam convention

| | |
|---------------------------|----------|
| Acetic acid, methyl ester | Organics |
| 2-Propanone | Organics |

Kyoto protocol



Inventory Status:

| | |
|--|--|
| Australia AICS: | On or in compliance with the inventory |
| Canada DSL Inventory List: | On or in compliance with the inventory |
| Canada NDSL Inventory: | Not in compliance with the inventory. |
| Ontario Inventory: | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Japan (ENCS) List: | On or in compliance with the inventory |
| Japan ISHL Listing: | On or in compliance with the inventory |
| Japan Pharmacopoeia Listing: | Not in compliance with the inventory. |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory |
| Mexico INSQ: | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory |
| Philippines PICCS: | On or in compliance with the inventory |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory |
| US TSCA Inventory: | On or in compliance with the inventory |
| EINECS, ELINCS or NLP: | Not in compliance with the inventory. |

16. Other information, including date of preparation or last revision

| | |
|-----------------------------|---|
| Issue Date: | 01/10/2022 |
| Revision Date: | No data available. |
| Version #: | 1.0 |
| Further Information: | No data available. |
| Disclaimer: | This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. |