Material Safety Data Sheet



Konform® SR - CTSR-12

1. Product and company identification

Product name : Konform® SR - CTSR-12

Supplier : ITW Chemtronics

8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

Synonym : Coating Solution

Trade name : Konform® SR - CTSR12

Manufacturer : ITW Chemtronics

8125 Cobb Center Drive

Kennesaw, GA 30152 ITW Chemtronics

8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

Code : CTSR-12, CTSR-12C, CTSR-12E

 MSDS #
 : 0710

 Validation date
 : 6/13/2013.

 Print date
 : 6/13/2013.

In case of emergency : Chemtrec - 1-800-424-9300 or collect 703-527-3887

24/7

Product type : Aerosol.

2. Hazards identification

Emergency overview

Physical state : Liquid. [Aerosol.]

Color : Straw.

Odor : Hydrocarbon.
Signal word : DANGER!

Hazard statements : EXTREMELY FLAMMABLE AEROSOL. CAUSES EYE IRRITATION. MAY BE

HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL

DATA.

Precautionary measures: Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using

this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Wash

thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential acute health effects

Inhalation : Harmful by inhalation. At very high concentrations, can displace the normal air and

cause suffocation from lack of oxygen.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach.

Skin: Moderately irritating to the skin.

Eyes: Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

2. Hazards identification

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: blood, kidneys, the

nervous system, the reproductive system, liver, heart, upper respiratory tract, skin,

central nervous system (CNS), eye, lens or cornea.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion: Adverse symptoms may include the following:

Irritating to mouth, throat and stomach.

May cause optic nerve damage.

Skin: Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

| Name | CAS number | % |
|---------------------------------|------------|---------|
| hexane | 107-83-5 | 15 - 30 |
| propane | 74-98-6 | 10 - 15 |
| Butane | 106-97-8 | 10 - 15 |
| acetone | 67-64-1 | 5 - 15 |
| 3-methylpentane | 96-14-0 | 5 - 15 |
| toluene | 108-88-3 | 5 - 10 |
| 2,3-dimethylbutane | 79-29-8 | 5 - 10 |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | 2 - 5 |
| 2,2-dimethylbutane | 75-83-2 | 1 - 5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical

attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

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4. First aid measures

4. I list alu lileasules

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

Inhalation

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product

Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Empty containers retain product residue and can be hazardous.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

| Ingredient | Exposure limits |
|------------|---|
| hexane | ACGIH TLV (United States, 3/2012). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3600 mg/m³ 15 minutes. NIOSH REL (United States, 1/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes. |
| propane | ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. NIOSH REL (United States, 1/2013). TWA: 1800 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. OSHA PEL (United States, 6/2010). TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. |

2,3-dimethylbutane

8. Exposure controls/personal protection

Butane ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. NIOSH REL (United States, 1/2013). TWA: 1900 mg/m³ 10 hours. TWA: 800 ppm 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours. ACGIH TLV (United States, 3/2012). acetone STEL: 1782 mg/m³ 15 minutes. STEL: 750 ppm 15 minutes. TWA: 1188 mg/m³ 8 hours. TWA: 500 ppm 8 hours. NIOSH REL (United States, 1/2013). TWA: 590 mg/m³ 10 hours. TWA: 250 ppm 10 hours. OSHA PEL (United States, 6/2010). TWA: 2400 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 2400 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1800 mg/m³ 8 hours. TWA: 750 ppm 8 hours. 3-methylpentane ACGIH TLV (United States, 3/2012). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3600 mg/m³ 15 minutes. NIOSH REL (United States, 1/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m3 15 minutes. toluene ACGIH TLV (United States, 3/2012). TWA: 20 ppm 8 hours. NIOSH REL (United States, 1/2013). STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 10 hours. TWA: 100 ppm 10 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. OSHA PEL Z2 (United States, 11/2006). AMP: 500 ppm 10 minutes. CEIL: 300 ppm

TWA: 200 ppm 8 hours.

TWA: 500 ppm 8 hours.

ACGIH TLV (United States, 3/2012).

8. Exposure controls/personal protection

TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3600 mg/m³ 15 minutes. NIOSH REL (United States, 1/2013).

TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.

2-methoxy-1-methylethyl acetate

2,2-dimethylbutane

AIHA WEEL (United States, 10/2011).

TWA: 50 ppm 8 hours.

ACGIH TLV (United States, 3/2012).

TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3600 mg/m³ 15 minutes. NIOSH REL (United States, 1/2013).

TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8. Exposure controls/personal protection

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Liquid. [Aerosol.]

Flash point : Closed cup: <-18°C (<-0.4°F) [Tagliabue.]

Color : Straw.

Odor : Hydrocarbon.

Boiling/condensation point : 54°C (129.2°F)

 Relative density
 : 0.74

 Vapor density
 : >1 [Air = 1]

 Volatility
 : 89% (v/v)

Evaporation rate : >1 (butyl acetate = 1)

Aerosol product

Type of aerosol : Spray
Heat of combustion : -29 kJ/g

10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. open flames, sparks and static discharge Do not spray on a naked flame or any incandescent material.

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials alkalis

Hazardous decomposition products

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

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------------------|---------------|----------------------------|----------|
| Butane acetone | LC50 Inhalation Vapor LD50 Oral | Rat Rat | 658000 mg/m³ 5800 mg/kg | 4 hours |
| toluene | LC50 Inhalation Vapor | Rat | 49 g/m³ | 4 hours |
| 2-methoxy-1-methylethyl | LD50 Oral LD50 Dermal | Rat Rabbit | 636 mg/kg >5 g/kg | - |
| acetate | LD30 Definal | Kabbit | -5 g/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |

Conclusion/Summary

Chronic toxicity

: Not available.

Conclusion/Summary

: Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|---------------------------|-------------|
| acetone | Eyes - Mild irritant | Human | - | 186300 parts | - |
| | | | | per million | |
| | Eyes - Mild irritant | Rabbit | - | 10 microliters | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 395 milligrams | - |
| toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 100 | - |
| | | | | milligrams | |
| | Eyes - Mild irritant | Rabbit | - | 870 Micrograms | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 milligrams | - |
| | Skin - Mild irritant | Pig | - | 24 hours 250 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 435 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 500 milligrams | - |

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|---------------------------------|------|------|-----|-------|-----|-------|
| propane | - | - | - | - | - | None. |
| acetone | - | - | - | A4 | - | None. |
| toluene | - | 3 | - | A4 | - | None. |
| 2-methoxy-1-methylethyl acetate | - | - | - | - | - | None. |

Mutagenicity

Konform® SR - CTSR-12

11. Toxicological information

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--------------------------------------|--|----------|
| acetone | Acute EC50 20.565 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute LC50 6000000 μg/l Fresh water | Crustaceans - Gammarus pulex | 48 hours |
| | Acute LC50 10000 μg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 100 mg/l Fresh water | Fish - Pimephales promelas - | 96 hours |
| | | Juvenile (Fledgling, Hatchling, | |
| | | Weanling) | |
| | Chronic NOEC 4.95 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 0.1 ml/L Fresh water | Daphnia - Daphnia magna - | 21 days |
| | | Neonate | |
| toluene | Acute EC50 433 ppm Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 12500 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 11600 μg/l Fresh water | Crustaceans - Gammarus pseudolimnaeus - Adult | 48 hours |
| | Acute EC50 6000 μg/l Fresh water | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, | 48 hours |
| | | Weanling) | |
| | Acute LC50 5500 µg/l Fresh water | Fish - Oncorhynchus kisutch - Fry | 96 hours |
| | Chronic NOEC 500000 μg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |

Conclusion/Summary

Persistence/degradability

Conclusion/Summary : Not available.

: Not available.

Other adverse effects : N

: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Toxic hazardous waste "U" List

| Ingredient | CAS# | | Reference number |
|--|----------|--------|------------------|
| Acetone (I); 2-Propanone (I) Toluene; Benzene, methyl- | 67-64-1 | Listed | U002 |
| | 108-88-3 | Listed | U220 |

13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|--------------------------|-----------|---------------------------------------|---------|-----|----------|--|
| DOT Classification | - | Consumer commodity ORM-D | ORM-D | - | | Use ORM-D Label Reportable quantity 13333.3 lbs / 6053.3 kg [2161 gal / 8180.2 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. |
| TDG Classification | - | Consumer commodity ORM-D | ORM-D | - | | - |
| Mexico Classification | - | Consumer commodity ORM-D | ORM-D | - | | - |
| ADR/RID Class | 1950 | Aerosol. Flammable | 2 | - | <u>*</u> | Tunnel code (D) |
| IMDG Class | 1950 | Aerosols, flammable (hexane, propane) | 2.1 | - | * | - |
| IATA-DGR Class | 1950 | Aerosol. Flammable | 2.1 | - | * | - |

PG* : Packing group

15. Regulatory information

HCS Classification : Flammable aerosol

Irritating material Target organ effects

U.S. Federal regulations : TSCA 8(a) PAIR: 2-methoxy-1-methylethyl acetate

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: toluene Clean Water Act (CWA) 311: toluene

Clean Air Act (CAA) 112 regulated flammable substances: propane; Butane

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

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15. Regulatory information

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312 Classification

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---------------------------------|---------|----------------|----------------------------------|----------|--|--|
| hexane | 15 - 30 | Yes. | No. | No. | No. | Yes. |
| propane | 10 - 15 | Yes. | Yes. | No. | No. | Yes. |
| Butane | 10 - 15 | Yes. | Yes. | No. | No. | Yes. |
| acetone | 5 - 15 | Yes. | No. | No. | Yes. | Yes. |
| 3-methylpentane | 5 - 15 | Yes. | No. | No. | No. | Yes. |
| toluene | 5 - 10 | Yes. | No. | No. | Yes. | Yes. |
| 2,3-dimethylbutane | 5 - 10 | Yes. | No. | No. | No. | Yes. |
| 2-methoxy-1-methylethyl acetate | 2 - 5 | Yes. | No. | No. | No. | Yes. |
| 2,2-dimethylbutane | 1 - 5 | No. | No. | No. | No. | Yes. |

SARA 313

| | Product name | CAS number | % |
|---------------------------------|--------------|------------|--------|
| Form R - Reporting requirements | toluene | 108-88-3 | 5 - 10 |
| Supplier notification | toluene | 108-88-3 | 5 - 10 |

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: ISOHEXANE; PROPANE; BUTANE; ACETONE;

3-METHYLPENTANE; TOLUENE; 2,3-DIMETHYLBUTANE; 2,2-DIMETHYLBUTANE

New York : The following components are listed: Acetone; 2-Propanone; Toluene

The following components are listed: 2-METHYLPENTANE; ISOHEXANE; PROPANE; **New Jersey**

> BUTANE; ACETONE; 2-PROPANONE; TOLUENE; BENZENE, METHYL-; 2, 3-DIMETHYLBUTANE; BUTANE, 2,3-DIMETHYL-; NEOHEXANE; 2,2 DIMETHYL

BUTANE

: The following components are listed: PENTANE, 2-METHYL-; PROPANE; BUTANE; Pennsylvania

2-PROPANONE; PENTANE, 3-METHYL-; BENZENE, METHYL-; BUTANE, 2,

3-DIMETHYL-; BUTANE, 2,2-DIMETHYL-

California Prop. 65

15. Regulatory information

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | • | Maximum acceptable dosage level |
|-----------------|--------|--------------|-----|--|
| toluene | No. | Yes. | No. | 7000 μg/day (ingestion) 13000 μg/day (inhalation) |

Canada inventory

International regulations

International lists

: All components are listed or exempted.

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. **Malaysia Inventory (EHS Register)**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons

Convention List Schedule

I Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

III Chemicals

: Not listed

: Not listed

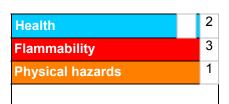
: Not listed

16. Other information

Label requirements

: EXTREMELY FLAMMABLE AEROSOL. CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

16. Other information



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▼ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.