



SAFETY DATA SHEET

1. Identification

| | |
|---|--|
| Product identifier | Trans-X® High Mileage Stop Leak & Tune Up |
| Other means of identification | |
| Product Code | No. 402916 (Item# 1006101) |
| Recommended use | Transmission fluid additive |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufactured or sold by: | |
| Company name | CRC Industries, Inc. |
| Address | 885 Louis Dr. Warminster, PA 18974 US |
| Telephone | |
| General Information | 215-674-4300 |
| Technical Assistance | 800-521-3168 |
| Customer Service | 800-272-4620 |
| 24-Hour Emergency | 800-424-9300 (US) |
| (CHEMTREC) | 703-527-3887 (International) |
| Website | www.crcindustries.com |

2. Hazard(s) identification

| | | |
|------------------------------|--|---|
| Physical hazards | Flammable liquids | Category 2 |
| Health hazards | Serious eye damage/eye irritation | Category 2A |
| | Carcinogenicity | Category 2 |
| | Reproductive toxicity (the unborn child) | Category 2 |
| | Specific target organ toxicity, repeated exposure | Category 2 (central nervous system, ears, kidney, liver, peripheral nervous system) |
| | Aspiration hazard | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 3 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--------------------------------|---|
| Signal word | Danger |
| Hazard statement | Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs (central nervous system, ears, kidney, liver, peripheral nervous system) through prolonged or repeated exposure. Harmful to aquatic life. |
| Precautionary statement | |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. |

| | |
|--|--|
| Response | If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. If exposed or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. |
| Storage | Store in a well-ventilated place. Keep cool. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national regulations. |
| Hazard(s) not otherwise classified (HNOC) | Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|---------|
| distillates (petroleum), hydrotreated heavy naphthenic | | 64742-52-5 | 70 - 80 |
| isopropyl alcohol | | 67-63-0 | 10 - 20 |
| toluene | | 108-88-3 | 3 - 5 |
| xylene | | 1330-20-7 | 3 - 5 |
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) | | 123-42-2 | 1 - 3 |
| ethylbenzene | | 100-41-4 | 1 - 3 |
| heterocyclic ether | | 18760-44-6 | 1 - 3 |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

| | |
|---|---|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| Most important symptoms/effects, acute and delayed | Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Edema. Jaundice. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| General information | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

| | |
|--|--|
| Suitable extinguishing media | Water fog. Alcohol resistant foam. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| 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 form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

General fire hazards

Highly flammable liquid and vapor.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Take precautionary measures against static discharges. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Eliminate sources of ignition. Avoid spark promoters. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|------|------------------------------------|-------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2) | PEL | 240 mg/m3 | |
| distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | PEL | 50 ppm 5 mg/m3 | Mist. |
| ethylbenzene (CAS 100-41-4) | PEL | 2000 mg/m3 500 ppm 435 mg/m3 | |
| isopropyl alcohol (CAS 67-63-0) | PEL | 100 ppm 980 mg/m3 | |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|------|-----------|------|
| xylene (CAS 1330-20-7) | PEL | 400 ppm | |
| | | 435 mg/m3 | |
| | | 100 ppm | |

US. OSHA Table Z-2 (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|---------|---------|------|
| toluene (CAS 108-88-3) | Ceiling | 300 ppm | |
| | TWA | 200 ppm | |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|---|------|---------|---------------------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2) | TWA | 50 ppm | |
| distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | TWA | 5 mg/m3 | Inhalable fraction. |
| ethylbenzene (CAS 100-41-4) | TWA | 20 ppm | |
| isopropyl alcohol (CAS 67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |
| toluene (CAS 108-88-3) | TWA | 20 ppm | |
| xylene (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|---|---------|------------|-------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2) | TWA | 240 mg/m3 | |
| | | 50 ppm | |
| distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | Ceiling | 1800 mg/m3 | |
| | | 10 mg/m3 | Mist. |
| ethylbenzene (CAS 100-41-4) | TWA | 5 mg/m3 | Mist. |
| | STEL | 545 mg/m3 | |
| isopropyl alcohol (CAS 67-63-0) | TWA | 125 ppm | |
| | | 435 mg/m3 | |
| toluene (CAS 108-88-3) | STEL | 100 ppm | |
| | | 1225 mg/m3 | |
| xylene (CAS 1330-20-7) | TWA | 500 ppm | |
| | | 980 mg/m3 | |
| toluene (CAS 108-88-3) | STEL | 400 ppm | |
| | | 560 mg/m3 | |
| xylene (CAS 1330-20-7) | TWA | 150 ppm | |
| | | 375 mg/m3 | |
| toluene (CAS 108-88-3) | STEL | 100 ppm | |
| | | 655 mg/m3 | |
| xylene (CAS 1330-20-7) | TWA | 150 ppm | |
| | | 435 mg/m3 | |
| toluene (CAS 108-88-3) | STEL | 100 ppm | |
| | | 435 mg/m3 | |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|---------------------------------|-----------|---|---------------------|---------------|
| ethylbenzene (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| isopropyl alcohol (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |
| toluene (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |
| xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

toluene (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

toluene (CAS 108-88-3)

Skin designation applies.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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 wash facilities and emergency shower should be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves such as: Neoprene. Nitrile.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Red.

Odor

Mild petroleum.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-138.8 °F (-94.9 °C) estimated

Initial boiling point and boiling range

179.6 °F (82 °C) estimated

Flash point

57 °F (13.9 °C) Setflash

Evaporation rate

Slow.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

| | |
|---|-----------------------------|
| Flammability limit - lower (%) | 1 % estimated |
| Flammability limit - upper (%) | 12 % estimated |
| Vapor pressure | 8 hPa estimated |
| Vapor density | > 1 (air = 1) |
| Relative density | 0.88 |
| Solubility(ies) | |
| Solubility (water) | Negligible. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 600 °F (315.6 °C) estimated |
| Decomposition temperature | Not available. |
| Percent volatile | 97 % estimated |

10. Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible materials | Strong acids. Strong oxidizing agents. Chlorine. Halogens. Isocyanates. |
| Hazardous decomposition products | Carbon oxides. |

11. Toxicological information

Information on likely routes of exposure

| | |
|--------------|--|
| Inhalation | May cause damage to organs through prolonged or repeated exposure by inhalation. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |

| | |
|--|---|
| Symptoms related to the physical, chemical and toxicological characteristics | Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Edema. Jaundice. |
|--|---|

Information on toxicological effects

| | |
|----------------|---|
| Acute toxicity | May be fatal if swallowed and enters airways. |
|----------------|---|

| Components | Species | Test Results |
|---|---------|--------------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 13500 mg/kg |
| Oral | | |
| LD50 | Rat | 4 g/kg |
| distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |

| Components | Species | Test Results |
|---|---|--------------------|
| ethylbenzene (CAS 100-41-4) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | 17.2 mg/l, 4 hours |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| isopropyl alcohol (CAS 67-63-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 13900 mg/kg |
| Inhalation | | |
| LC50 | Rat | 16000 ppm, 4 hours |
| Oral | | |
| LD50 | Rat | 4700 mg/kg |
| toluene (CAS 108-88-3) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | 12.5 mg/l, 4 hours |
| xylene (CAS 1330-20-7) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | Suspected of causing cancer. | |
| IARC Monographs. Overall Evaluation of Carcinogenicity | | |
| ethylbenzene (CAS 100-41-4) | 2B Possibly carcinogenic to humans. | |
| toluene (CAS 108-88-3) | 3 Not classifiable as to carcinogenicity to humans. | |
| xylene (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) | | |
| | Not regulated. | |
| US. National Toxicology Program (NTP) Report on Carcinogens | | |
| | Not listed. | |
| Reproductive toxicity | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child. | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | May cause damage to organs (central nervous system, ears, kidney, liver, peripheral nervous system) through prolonged or repeated exposure. | |
| Aspiration hazard | May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. | |
| Chronic effects | May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. | |

12. Ecological information

Ecotoxicity Harmful to aquatic life.

| Components | Species | | Test Results |
|---|---------|---|-------------------------------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 8750 mg/l, 48 hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 420 mg/l, 96 hours |
| | | Goldfish (Carassius auratus) | > 5000 mg/l, 24 hours |
| distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 30000 mg/l |
| ethylbenzene (CAS 100-41-4) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 1.8 mg/l, 48 hours |
| Fish | LC50 | Fish | 5.1 mg/l, 96 hours |
| heterocyclic ether (CAS 18760-44-6) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4.6 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.4 mg/l, 96 hours |
| isopropyl alcohol (CAS 67-63-0) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 7550 - 13299 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 9640 mg/l, 96 hours |
| toluene (CAS 108-88-3) | | | |
| <i>Acute</i> | | | |
| Other | EC50 | Pseudokirchnerella subcapitata | 433 mg/l, 96 hours |
| | | | 12.5 mg/l, 72 hours |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 6 mg/l, 48 hours |
| Fish | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 5.5 mg/l, 96 hours |
| xylene (CAS 1330-20-7) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 6.702 - 10.032 mg/l, 96 hours |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 3.82 mg/l, 48 hours |

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| | |
|--|------------|
| 4-hydroxy-4-methylpentan-2-one (diacetone alcohol) | -0.098 |
| ethylbenzene | 3.15 |
| isopropyl alcohol | 0.05 |
| toluene | 2.73 |
| xylene | 3.12 - 3.2 |

Bioconcentration factor (BCF)

| | |
|--------------------|-------|
| ethylbenzene | 1 |
| heterocyclic ether | 27.54 |
| isopropyl alcohol | 3.16 |

| | |
|--------------------------------------|-------|
| Bioconcentration factor (BCF) | |
| toluene | 90 |
| xylene | 23.99 |

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN1993

UN proper shipping name Flammable liquids, n.o.s. (isopropyl alcohol RQ = 813 LBS, xylene RQ = 2364 LBS), Limited Quantity

Transport hazard class(es)

Class 3

Subsidiary risk -

Label(s) 3

Packing group II

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150

Packaging non bulk 202

Packaging bulk 242

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s. (isopropyl alcohol, xylene), Limited Quantity

Transport hazard class(es)

Class 3

Subsidiary risk -

Packing group II

ERG Code 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol, xylene), Limited Quantity

Transport hazard class(es)

Class 3

Subsidiary risk -

Packing group II

Environmental hazards

Marine pollutant No.

EmS F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ethylbenzene (CAS 100-41-4)

toluene (CAS 108-88-3)

xylene (CAS 1330-20-7)

CERCLA Hazardous Substance List (40 CFR 302.4)

ethylbenzene (CAS 100-41-4)

Listed.

toluene (CAS 108-88-3)

Listed.

xylene (CAS 1330-20-7)

Listed.

CERCLA Hazardous Substances: Reportable quantity

ethylbenzene (CAS 100-41-4)

1000 LBS

toluene (CAS 108-88-3)

1000 LBS

xylene (CAS 1330-20-7)

100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

ethylbenzene (CAS 100-41-4)

toluene (CAS 108-88-3)

xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

toluene (CAS 108-88-3)

6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

toluene (CAS 108-88-3)

35 %WV

DEA Exempt Chemical Mixtures Code Number

toluene (CAS 108-88-3)

594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

isopropyl alcohol (CAS 67-63-0)

Low priority

Food and Drug Administration (FDA) Not regulated.**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Classified hazard categories**

Flammable (gases, aerosols, liquids, or solids)
 Acute toxicity (any route of exposure)
 Serious eye damage or eye irritation
 Carcinogenicity
 Reproductive toxicity
 Specific target organ toxicity (single or repeated exposure)
 Aspiration hazard
 Hazard not otherwise classified (HNOC)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| ethylbenzene | 100-41-4 | 1 - 3 |
| toluene | 108-88-3 | 3 - 5 |
| xylene | 1330-20-7 | 3 - 5 |

US state regulations**US. New Jersey Worker and Community Right-to-Know Act**

4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2)

ethylbenzene (CAS 100-41-4)
isopropyl alcohol (CAS 67-63-0)
toluene (CAS 108-88-3)
xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2)
distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
ethylbenzene (CAS 100-41-4)
isopropyl alcohol (CAS 67-63-0)
toluene (CAS 108-88-3)
xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2)
ethylbenzene (CAS 100-41-4)
isopropyl alcohol (CAS 67-63-0)
toluene (CAS 108-88-3)
xylene (CAS 1330-20-7)

US. Rhode Island RTK

4-hydroxy-4-methylpentan-2-one (diacetone alcohol) (CAS 123-42-2)
distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
ethylbenzene (CAS 100-41-4)
toluene (CAS 108-88-3)
xylene (CAS 1330-20-7)

California Proposition 65



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|-----------------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: February 27, 1987 |
| cumene (CAS 98-82-8) | Listed: April 6, 2010 |
| ethylbenzene (CAS 100-41-4) | Listed: June 11, 2004 |
| naphthalene (CAS 91-20-3) | Listed: April 19, 2002 |

California Proposition 65 - CRT: Listed date/Developmental toxin

| | |
|--------------------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
| sulfur dioxide (CAS 7446-09-5) | Listed: July 29, 2011 |
| toluene (CAS 108-88-3) | Listed: January 1, 1991 |

California Proposition 65 - CRT: Listed date/Male reproductive toxin

| | |
|-----------------------|---------------------------|
| benzene (CAS 71-43-2) | Listed: December 26, 1997 |
|-----------------------|---------------------------|

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
ethylbenzene (CAS 100-41-4)
isopropyl alcohol (CAS 67-63-0)
toluene (CAS 108-88-3)
xylene (CAS 1330-20-7)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) 100 %

Consumer products (40 CFR 59, Subpt. C) Not regulated

State

Consumer products Not regulated

VOC content (CA) 26 %

VOC content (OTC) 26 %

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Toxic Chemical Substances (TCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

| | |
|----------------------------|---|
| Issue date | 08-07-2015 |
| Revision date | 02-06-2018 |
| Prepared by | Allison Yoon |
| Version # | 02 |
| Further information | CRC # 901A/1002891 |
| HMIS® ratings | Health: 2* Flammability: 3 Physical hazard: 0 Personal protection: B |
| NFPA ratings | Health: 2 Flammability: 3 Instability: 0 |

NFPA ratings



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Revision information

This document has undergone significant changes and should be reviewed in its entirety.