SAFETY DATA SHEET

Issue Date 02-17-2017 **Revision Date** 02-17-2017 **Version** 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: FUEL TREATMENT

Other means of identification

Common Name: 3000
UN/ID No NA1993
Synonyms None
Product Categories Solvent Based Cleaner

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
ACEL, LLC.
6826 Hill Park Dr. Suite #100
Lorton, VA 22079

Emergency telephone number

Company Phone Number ACEL, LLC. (888) 801-2507
Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Vapors)	Category 3
Germ cell mutagenicity	Sub-category 1B
Carcinogenicity	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

Danger

Hazard statements
Toxic if inhaled
May cause genetic defects
Suspected of causing cancer
May be fatal if swallowed and enters airways
Combustible liquid

Appearance Mobile	**Physical state** Liquid	**Odor** Solvent

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep cool

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CONTROL CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in a dry place

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other information
• May be harmful in contact with skin
• Harmful to aquatic life with long lasting effects
2.93 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret
Hydrotreated Light Petroleum Distillates	64742-47-8	90-100	*
Light Aromatic Solvent Naphtha	64742-95-6	1-10	*
Polyolefin Alkyl Phenol Alkyl Amine	PROPRIETARY	1-5	*
Polyether polyol	PROPRIETARY	1-5	*
Cumene	98-82-8	0.1-0.3	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Skin contact Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center.

Eye contact Immediately flush eyes for at least 15 minutes. Get medical attention.

Ingestion Call a physician. If swallowed, call a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Drowsiness, Dizziness, Nausea, Vomiting, Coughing and/ or wheezing; Eye irritation, Skin irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Low hazard for usual industrial or commercial handling.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Dry chemical, Carbon dioxide (CO2), Foam, Water fog.

Small Fire Dry chemical or CO2.

Large Fire Water spray or fog, Foam.

Explosive properties: Risk of explosion if heated under confinement. May form explosive mixtures in presence of oxidizing substances (gas/dust).

Specific hazards arising from the chemical
COMBUSTIBLE MATERIAL: May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition. Vapors may travel to source of ignition and flash back.

Hazardous combustion products Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

Specific methods:
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Special firefighting procedures:
Combustible liquid. Keep away from heat, sparks and flame. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool. Do not use water jet. Move containers from fire area if you can do it without risk. Water may cause frothing of heated materials. Dike to collect large liquid spills.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Ensure adequate ventilation. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.

For emergency responders Use personal protection recommended in Section 8. Ventilate the area. Remove all sources of ignition. Pay attention to flashback. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions

Environmental precautions: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for Containment Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk.

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for clean-up: Clean-up methods - small spillage: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Protect from physical damage. Do not store at temperatures above 120°F (50°C). Avoid breathing vapors or mists. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharge. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Keep containers tightly closed in a cool, well-ventilated place. Empty containers retain product residue and can be hazardous.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Light Petroleum Distillates 64742-47-8	TWA: 200 ppm	TWA: 500 ppm	-
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	-	Not established	-
Polyether polyol PROPRIETARY	-	Not established	-
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m^3	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m^3

Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear normal work clothing. Wear chemical resistant gloves (consult your safety equipment supplier). Additional body garments should be used based on task being performed: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. (consult with the specific manufacturer to confirm performance).

Respiratory protection Ensure adequate ventilation. General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Mobile	**Odor**	Solvent
Color	Light brown	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	N/A	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	> 217 °C / 422 °F	(based on components)
Flash point	89 °C / 192 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	Slower than ether	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	
Specific Gravity	0.80	
Water solubility	Insoluble in water	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	1.4
	Contains a VOC exempt solvent
Density	0.80 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable.

Chemical stability

Possibility of Hazardous Reactions None under normal processing

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis.

Hazardous Decomposition Products

Hazardous Decomposition Products Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Toxic by inhalation. May be fatal if swallowed and enters airways. May be harmful in contact with skin.

Inhalation Toxic by inhalation. Causes respiratory tract irritation. Aspiration into lungs can produce severe lung damage.

Eye contact May cause irritation: redness, stinging and tearing.

Skin Contact May be harmful in contact with skin: Repeated exposure may cause skin dryness or cracking. May cause burns.

Ingestion May be fatal if swallowed and enters airways: Aspiration may cause pulmonary edema and pneumonitis.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Light Petroleum Distillates 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h, = 3400 ppm (Rat) 4 h
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	>10000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	=19171 mg/m^3 (Rat) 4 h
Polyether polyol PROPRIETARY	2900 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic effects: Is classified by the European Union as a mutagen of category 1B. Substances which should be regarded as being mutagenic to man.

Carcinogenicity Category 2: Substances that cause cancer in animals, and are considered to cause cancer in man:

Components	ACGIH	IARC	NTP	OSHA
Cumene 98-82-8		Group 2B	Reasonably Anticipated	

Reproductive toxicity In the presence of slight maternal toxicity, fetotoxic effects have been observed in the offspring of rats exposed by inhalation.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Chronic toxicity Prolonged skin contact may defat the skin and produce dermatitis. Possibly Carcinogenic.

Subchronic toxicity No information available.

Target Organ Effects Kidney, Liver, Spleen, Adrenal gland, Thymus, Central nervous system.

Neurological effects Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Other adverse effects Auditory system: prolonged and repeated exposure to high concentrations have resulted in hearing losses in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. This product contains trimethylbenzene. Literature data indicate that

long-term inhalation exposure causes blood effects in laboratory animals.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 2.93 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5236 mg/kg
ATEmix (dermal) 2037 mg/kg
ATEmix (inhalation-vapor) 5.4 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

Components	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrotreated Light Petroleum Distillates 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Light Aromatic Solvent Naphtha 64742-95-6		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50
Cumene 98-82-8	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04 - 6.61: 96 h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static		0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability
This product contains components which may be persistent in the environment.

Bioaccumulation
Bioaccumulative potential.

Mobility
The product is insoluble and floats on water.

Components	Partition coefficient
Cumene 98-82-8	3.55

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No	NA1993
Proper Shipping Name:	Combustible liquid, n.o.s. (Petroleum Distillates)
Hazard Class	COMB. LIQ.
Packing Group:	III
Emergency Response Guide Number	128

IATA Not regulated

IMDG Not regulated

Limited quantity (LQ) < 5 Liters

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

No SARA 313 chemicals are present above the reporting threshold.

Components	CAS Number	Weight %	SARA 313 - Threshold Values %
Cumene 98-82-8	98-82-8	0.1-0.3	1.0% de minimus concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Components	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating
Health hazards 2
Flammability 2
Instability 0
Physical and Chemical Properties -
HMIS Rating
Health hazards 2*
Flammability 2
Physical hazards 0
Personal protection B
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Prepared by Environmental Health and Safety Department
Issue Date 02-17-2017
Revision Date 02-17-2017
Revision Note
This data sheet contains changes from the previous version in section(s): 4,5,8,11
Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Issue Date 02-21-2017 **Revision Date** 02-21-2017 **Version** 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: FUEL SYSTEM DECARBONIZER

Other means of identification

Common Name: 3310
UN/ID No NA1993 (domestic)
Synonyms None
Product Categories Solvent Based Cleaner

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
ACEL, LLC.
6826 Hill Park Dr. Suite #100
Lorton, VA 22079

Emergency telephone number

Company Phone Number ACEL, LLC. (888) 801-2507
Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Germ cell mutagenicity	Sub-category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard statements
Harmful in contact with skin
Toxic if inhaled
May cause genetic defects
Suspected of causing cancer
Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor

Appearance Mobile **Physical state** Liquid **Odor** Solvent

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment (if metal)
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

Call a POISON CONTROL CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CONTROL CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Store in a dry place

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other information
• May be harmful if swallowed
• Causes mild skin irritation
• Toxic to aquatic life with long lasting effects
• Toxic to aquatic life
5.76 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret

Petroleum distillates, hydrotreated light	64742-47-8	0-90	*
Solvent Naphtha, Medium Aliphatic	64742-88-7	0-90	*
Light Aromatic Solvent Naphtha	64742-95-6	3-10	*
Xylene	1330-20-7	2-6	*
Polyolefin Alkyl Phenol Alkyl Amine	PROPRIETARY	2-6	*
1,2,4-Trimethylbenzene	95-63-6	1-4	*
Propoxylated alcohol	TRADE SECRET	1-3	*
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	337367-30-3	1-3	*
1,3,5-Trimethylbenzene	108-67-8	1-2	*
Cumene	98-82-8	0.2-1	*
N-Propylbenzene	103-65-1	0.3-0.9	*
1,2,3-Trimethylbenzene	526-73-8	0.1-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice If exposed or concerned: Get medical advice/attention.

Skin contact Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Take off contaminated clothing and wash it before reuse. Thoroughly clean shoes before reuse. Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Continue to rinse for at least ten minutes. Call a physician.

Ingestion Call a physician or Poison Control Center immediately. Do not induce vomiting. Take person immediately to the hospital. Keep respiratory tract clear.

Notes to Physician Aspiration hazard if swallowed - can enter lungs and cause damage. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Symptoms Drowsiness, Dizziness, Skin irritation, Eye irritation, Stomach and intestinal upset (diarrhea, nausea, vomiting); Cough, Difficulty in breathing, Headache, Respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Avoid breathing vapors or mists. Avoid contact with skin. It may be dangerous to the person providing first aid to give mouth-to-mouth resuscitation.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Use water spray (fog), foam, dry chemical or CO2.

Small Fire Dry chemical or CO2.

Large Fire Water spray or fog, Foam.

Explosive properties: Risk of explosion if heated under confinement. May form explosive mixtures in presence of

oxidizing substances (gas/dust).

Specific hazards arising from the chemical

FLAMMABLE LIQUID AND VAPOR. The product causes irritation of eyes, skin and mucus membranes. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Keep product and empty container away from heat and sources of ignition. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Runoff may create fire or explosion hazard.

Hazardous combustion products Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

Specific methods:

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes. May be ignited by heat, sparks or flames.

Special firefighting procedures:

FLAMMABLE LIQUID AND VAPOR. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Water mist may be used to cool closed containers. Do not use a solid water stream as it may scatter and spread fire. Use fine water spray to reduce vapors; do not put water directly on point of material release from container. Contain spill and dike, if possible.

Component	ACGIH - test
Xylene 1330-20-7 (2-6)	1.5

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Remove all sources of ignition. Ensure adequate ventilation. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. See Section 8 for information on appropriate personal protective equipment.

For emergency responders Use personal protection recommended in Section 8. Remove all sources of ignition. Ventilate the area. Pay attention to flashback. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions

Environmental precautions: Avoid subsoil penetration. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for clean-up: Clean-up methods - small spillage: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ground and bond containers when transferring material. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Protect from physical damage. Do not store at temperatures above 120°F (49°C). Avoid breathing vapors or mists. Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Empty containers retain product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis, Reducing agents, Oxygen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Petroleum distillates, hydrotreated light 64742-47-8	-	Not established	-
Solvent Naphtha, Medium Aliphatic 64742-88-7	-	Z1 PEL: 500 ppm TWA: 2900 mg/m³ Z1A TWA: 100 ppm TWA: 525 mg/m³ (as Stoddard Solvent)	-
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³	-
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	-	Not established	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m³
Propoxylated alcohol TRADE SECRET	-	Not established	-
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia 337367-30-3	-	Not established	-
1,3,5-Trimethylbenzene 108-67-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m³	TWA: 25 ppm TWA: 125 mg/m³
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m³
N-Propylbenzene 103-65-1	-	Not established	-
1,2,3-Trimethylbenzene 526-73-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m³	TWA: 25 ppm TWA: 125 mg/m³

Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear normal work clothing, Chemical resistant gloves: (consult with the specific

	manufacturer to confirm performance). Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Mobile	**Odor**	Solvent
Color	Clear Medium Brown	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	N/A	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 140 °C / 284 °F	(based on components)
Flash point	44 °C / 112 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	Slower than ether	Slower than ether
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	
Specific Gravity	0.80	
Water solubility	Insoluble in water	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	90.9
Density	0.80 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Possibility of Hazardous Reactions None under normal processing

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid: Chlorine, Strong oxidizing agents, Strong acids, Alkalis, Reducing agents, Oxygen.

Hazardous Decomposition Products

Hazardous Decomposition Products Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful in contact with skin. Toxic if inhaled. May cause genetic defects. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Inhalation Toxic by inhalation: Causes respiratory tract irritation.

Eye contact May cause irritation: redness, stinging and tearing.

Skin Contact Harmful in contact with skin. Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Solvent Naphtha, Medium Aliphatic 64742-88-7	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h, = 3400 ppm (Rat) 4 h
Xylene 1330-20-7	= 3500 mg/kg (Rat) = 4820 mg/kg (Rat)	> 4350 mg/kg (Rabbit) > 2000 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h > 5.04 mg/L (Rat) 4 h
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	>10000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	=19171 mg/m³ (Rat) 4 h
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat) = 8970 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Propoxylated alcohol TRADE SECRET	-	-	-
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia 337367-30-3	-	-	-
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m³ (Rat) 4 h
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h
N-Propylbenzene 103-65-1	-	-	= 65000 ppm (Rat) 2 h
1,2,3-Trimethylbenzene 526-73-8	-	-	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Skin Sensitization, Respiratory Sensitization: Not classified.

Mutagenic effects: Is classified by the European Union as a mutagen of category 1B: Substances which should be regarded as being mutagenic to man.

Carcinogenicity Category 2: Substances that cause cancer in animals, and are considered to cause cancer in man. Category 3: Not Classifiable.

Components	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Cumene 98-82-8		Group 2B	Reasonably Anticipated	

Reproductive toxicity Causes fetotoxicity in animals at doses which are maternally toxic.

STOT - single exposure Not classified.

STOT - repeated exposure Category 1, Causes damage to organs through prolonged or repeated exposure: Liver, Kidney, Central nervous system.

Chronic toxicity Xylene contains ethylbenzene. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Experiments have shown reproductive toxicity effects on laboratory animals. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.

Subchronic toxicity No information available.

Target Organ Effects Gastrointestinal tract (GI), Kidney, liver, bone marrow, heart, blood and reproductive system, Spleen, Respiratory system, Immune system, Central nervous system.

Neurological effects Repeated exposure affects the central nervous system. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Other adverse effects This product contains trimethylbenzene. Literature data indicate that long-term inhalation exposure causes blood effects in laboratory animals. Caused kidney effects in male rats which are not considered relevant to humans. Auditory system: prolonged and repeated exposure to high concentrations have resulted in hearing losses in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 5.76 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2838 mg/kg

ATEmix (dermal) 1313 mg/kg

ATEmix (inhalation-dust/mist) 22.5 mg/l

ATEmix (inhalation-vapor) 3 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects. Acute Aquatic Toxicity: Toxic to aquatic life.

5.82 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated light 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

Solvent Naphtha, Medium Aliphatic 64742-88-7	450: 96 h Pseudokirchneriella subcapitata mg/L EC50	800: 96 h Pimephales promelas mg/L LC50 static		100: 48 h Daphnia magna mg/L EC50
Light Aromatic Solvent Naphtha 64742-95-6		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50
Xylene 1330-20-7	11: 72 h Pseudokirchneriella subcapitata mg/L EC50	13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static		3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
1,2,4-Trimethylbenzene 95-63-6		7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magna mg/L EC50
1,3,5-Trimethylbenzene 108-67-8		3.48: 96 h Pimephales promelas mg/L LC50 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		
Cumene 98-82-8	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04 - 6.61: 96 h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static		0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static
1,2,3-Trimethylbenzene 526-73-8		7.72: 96 h Pimephales promelas mg/L LC50 flow-through		

Persistence and degradability
This product contains components which may be persistent in the environment.

Bioaccumulation
Bioaccumulative potential.

Mobility
The product is insoluble and floats on water.

Components	Partition coefficient
Xylene 1330-20-7	3.12-3.2
Cumene 98-82-8	3.55

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No	NA1993
Proper Shipping Name:	Combustible liquids, n.o.s. (Solvent Naphtha)
Hazard Class	Comb. Liq.
Packing Group:	III
Emergency Response Guide Number	128

IATA

UN/ID No	UN1993
Proper Shipping Name:	Flammable liquids, n.o.s. (Solvent Naphtha)
Hazard Class	3
Packing Group:	III

IMDG

UN/ID No	UN1993
Proper Shipping Name:	Flammable liquids, n.o.s. (Solvent Naphtha)
Hazard Class	3
Packing Group:	III

Limited quantity (LQ) < 5 Liters

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Components	CAS Number	Weight %	SARA 313 - Threshold Values %
Xylene 1330-20-7	1330-20-7	2-6	1.0 % de minimis concentration
1,2,4-Trimethylbenzene 95-63-6	95-63-6	1-4	1.0% de minimus concentration
Cumene 98-82-8	98-82-8	0.2-1	1.0% de minimus concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Components	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Xylene 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations (RTK)

California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating
Health hazards 2
Flammability 2
Instability 0
Physical and Chemical Properties -
HMIS Rating
Health hazards 2*
Flammability 2
Physical hazards 0
Personal protection C
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Prepared by Environmental Health and Safety Department
Issue Date 02-21-2017
Revision Date 02-21-2017
Revision Note
Formula. The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 5,7,8
Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Issue Date 02-20-2017 **Revision Date** 02-20-2017 **Version** 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: THROTTLE BODY & AIR INTAKE CLEANER

Other means of identification

Common Name: 3400
UN/ID No UN1950
Synonyms None
Product Categories Aerosol Automotive Cleaner, Solvent Based

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
ACEL, LLC.
6826 Hill Park Dr. Suite #100
Lorton, VA 22079

Emergency telephone number

Company Phone Number ACEL, LLC. (888) 801-2507
Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable aerosols	Category 2

Label elements

Emergency Overview

Danger

Hazard statements
Causes skin irritation
Causes severe eye irritation
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
Flammable aerosol
Pressurized container: May burst if heated

Appearance Liquid, Mobile, Compressed gas. **Physical state** Aerosol **Odor** Acetone

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/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

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

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 ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
Store in a dry place

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other information
• May be harmful if swallowed
• Harmful to aquatic life with long lasting effects
10.08 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	Trade Secret
Acetone	67-64-1	70-85	*
Carbon Dioxide	124-38-9	10-30	*
Toluene	108-88-3	5-10	*
Methyl Alcohol	67-56-1	0-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice If exposed or concerned: Get medical advice/attention.

Skin contact Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

Eye contact 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.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention.

Notes to Physician Aspiration into lungs can produce severe lung damage.

Most important symptoms and effects, both acute and delayed

Symptoms Drowsiness, Dizziness, Respiratory irritation, Skin irritation, Eye irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Avoid breathing vapors or mists. Avoid contact with skin.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Water spray or fog; Dry chemical, Carbon dioxide (CO2), Alcohol-resistant foam, Sand.

Small Fire Dry chemical or CO2.

Large Fire Alcohol resistant foam, Water spray or fog. Sand.

Explosive properties: Pressurized container: May burst if heated. Risk of explosion if heated under confinement.

Specific hazards arising from the chemical
Flammable aerosol. Pressurized container: May burst if heated. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Vapors are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.

Specific methods:
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes. May be ignited by heat, sparks or flames.

Special firefighting procedures:
FLAMMABLE AEROSOL. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use a solid water stream as it may scatter and spread fire. Water mist may be used to cool closed containers.

Component	ACGIH - test
Acetone	25
67-64-1 (70-85)	
Toluene	0.02
108-88-3 (5-10)	0.03
	0.3

Methyl Alcohol 67-56-1 (0-1)	15

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Avoid contact with skin, eyes and clothing.

For emergency responders Use personal protection recommended in Section 8. Remove all sources of ignition. Pay attention to flashback. Ventilate the area.

Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Avoid subsoil penetration.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk. Remove all sources of ignition. Ventilate the area. Use non-sparking tools.

Methods for clean-up: Pressurized container: Do not pierce or burn, even after use. Clean-up methods - small spillage: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Contents under pressure. Protect from physical damage. Do not store at temperatures above 122°F (50°C). Protect from direct sunlight. Keep away from heat, sparks and flame. Keep away from any incompatible materials (See Section 10).

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Materials to avoid: Acids, Bases, Oxidizing agents, Reducing agents, Light and/or alkaline metals; Acid chlorides, Acid anhydrides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Components	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m^3 TWA: 750 ppm TWA: 1800 mg/m^3	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m^3

Carbon Dioxide 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m³ TWA: 10000 ppm TWA: 18000 mg/m³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m³ STEL: 30000 ppm STEL: 54000 mg/m³
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm TWA: 100 ppm TWA: 375 mg/m³	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³
Methyl Alcohol 67-56-1	S* STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³

Appropriate engineering controls

Engineering measures: Eye wash and safety shower should be easily accessible. Mechanical ventilation required if used indoors on a continuous basis.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear normal work clothing. Solvent-resistant gloves, (consult with the specific manufacturer to confirm performance).

Respiratory protection Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing. Use personal protective equipment. Wear suitable gloves and eye/face protection. Avoid breathing vapors or mists. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Aerosol		
Appearance	Liquid, Mobile, Compressed gas.	**Odor**	Acetone
Color	Clear, Colorless to pale yellow	**Odor threshold**	306-653 ppm

Property	**Values**	**Remarks • Method**
pH	N/A	Not applicable
Melting point/freezing point	-95 °C / -139 °F	(Lowest component)
Boiling point / boiling range	56 °C / 133 °F	(Lowest component)
Flash point	-18 °C / -0.4 °F	Of liquid
Evaporation rate	6	n-Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limits in Air		(Lowest component)
Upper flammability limit	12.8%	
Lower flammability limit	2.0%	
Vapor pressure	No Data Available	
Vapor density	2 (air = 1)	@ 20 °C
Specific Gravity	0.80	@ 20° C
Water solubility	Slightly soluble	

Solubility in other solvents	No Data Available	
Partition coefficient	-0.24	Based on data provided
Autoignition temperature	465 °C / 869 °F	(Lowest component)
Decomposition temperature	No Data Available	
Kinematic viscosity	0.417 mm2/s	
Dynamic viscosity	0.33 mPa s	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	9.2 Contains California VOC exempt solvent
Density	0.80 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Possibility of Hazardous Reactions None under normal processing

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Temperatures above 120 °C. Keep away from direct sunlight.

Incompatible materials

Materials to avoid: Acids, Bases, Oxidizing agents, Reducing agents, Light and/or alkaline metals; Acid chlorides, Acid anhydrides.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Causes skin irritation. Causes severe eye irritation. Suspected of damaging fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

Inhalation Avoid breathing vapors or mists: May cause irritation of respiratory tract. Propellant is a simple asphyxiant.

Eye contact Avoid contact with eyes: Causes severe eye irritation. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

Skin Contact Causes skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion May cause additional effects as listed under "Inhalation". Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	=5800 mg/kg (Rat)	=7426 mg/kg (Guinea pig)	= 50100 mg/m³ (Rat) 8 h

67-64-1			
Carbon Dioxide 124-38-9	-	-	-
Toluene 108-88-3	= 636 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Methyl Alcohol 67-56-1	= 6200 mg/kg (Rat)	-	= 22500 ppm (Rat) 8 h

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Skin Sensitization: Not expected. Respiratory Sensitization: Not classified.
Mutagenic effects: No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity Category 3: Not Classifiable.

Components	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3		Group 3 (not classified)		

Reproductive toxicity Product is or contains a chemical or chemicals which is/are (a) known or suspected reproductive hazard(s): Toluene (CAS#108-88-3).
STOT - single exposure Category 3: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT - repeated exposure Category 2: May cause disorder and damage to the: Eyes, Central nervous system, Reproductive System, Respiratory system, Liver, Kidney.
Chronic toxicity Prolonged exposure may cause chronic effects. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. May cause adverse kidney effects. May cause adverse liver effects. May cause harm to the unborn child.
Target Organ Effects Liver, Kidney, Central nervous system, Bladder, Brain.
Neurological effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system.
Other adverse effects Experiments have shown reproductive toxicity effects in male and female laboratory animals. Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.
Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 10.08 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 3451 mg/kg
ATEmix (dermal) 24490 mg/kg
ATEmix (inhalation-dust/mist) 50.1 mg/l
ATEmix (inhalation-vapor) 139 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

10.08 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetone 67-64-1		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus		10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50

		mg/L LC50		
Toluene 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
Methyl Alcohol 67-56-1		28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through		

Persistence and degradability
Readily biodegradable: Soil, Water, Soil (anaerobic conditions).

Bioaccumulation
Bioaccumulative potential.

Mobility
No information available.

Components	Partition coefficient
Acetone 67-64-1	-0.24
Methyl Alcohol 67-56-1	-0.77

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No	UN1950
Proper Shipping Name:	Aerosol, Flammable
Hazard Class	2.1
Packing Group:	N/A
Emergency Response Guide Number	126

IATA

UN/ID No	UN1950
Proper Shipping Name:	Aerosol, Flammable
Hazard Class	2.1
Packing Group:	N/A

IMDG

UN/ID No	UN1950
Proper Shipping Name:	Aerosols
Hazard Class	2
Packing Group:	N/A

Limited quantity (LQ) < 1 Liter

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Components	CAS Number	Weight %	SARA 313 - Threshold Values %
Toluene 108-88-3	108-88-3	5-10	1.0 % de minimis concentration
Methyl Alcohol 67-56-1	67-56-1	0-1	1.0 % de minimis concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Components	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Toluene 108-88-3	1000 lb 1 lb		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
Methyl Alcohol 67-56-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating

Health hazards 2
Flammability -
Instability 0
Physical and Chemical Properties NFPA Level 2 aerosol

HMIS Rating

Health hazards 2*
Flammability 3
Physical hazards 1
Personal protection B, Flammability classification is under HMIS III
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Prepared by Environmental Health and Safety Department
Issue Date 02-20-2017
Revision Date 02-20-2017
Revision Note
The Emergency Overview has changed. SEE SECTION 2.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet