

SAFETY DATA SHEET

Issuing Date 1-Nov-21

Revision date 1-Nov-21

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION		
Material Name	Boss XStream Diesel Fuel Conditioner	
Other means of identification		
Product Code(s)	GHSRBS-122	
Synonyms	None known	
Chemical Name	Mixture	
Recommended use	Aftermarket Diesel	
Restrictions on use	None known	
Details of the supplier of the safety data sheet		
Initial supplier identifier	Manufacturer Address	
BOSS Lubricants	6303 30 ST SE Calgary, AB T2C 1R4	
Emergency telephone number		
Initial supplier phone number	(800) 844-9457	
Emergency Telephone	Chemtrec 1-800-424-9300	

2. HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States

Flammable liquids	Category 3
Acute toxicity(oral)	Category 4
Acute toxicity (Inhalation-dust and mist)	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 2
Specific Target Organ Toxicity	
Single Exposure	Category 3
Repeated Exposure	Category 2
Aspiration Hazard	
Unknown toxicity	Category 1
Acute, toxicity, oral	0.0%
Acute toxicity, inhalation, vapor	94.8%





GHS Label Elements

Hazard Symbol(s)



Signal Word Hazard Statement(s)

Precautionary Statement(s)

Prevention

Response

Storage

Disposal



16.8%

Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion proof (electrical/ventilating/lighting) equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapor/spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed, rinse mouth. Do not induce vomiting. Immediately call a poison center/doctor. If on skin (or hair), take off all contaminated clothing immediately and wash it before reuse. Rinse skin with water (or shower). If skin irritation occurs, get medical advice/attention. Specific treatment (see this label). If inhaled, remove person to fresh air and keep comfortable for breathing. Call a poison centre/doctor/if you feel unwell. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. If exposed or concerned, get medical advice/attention. In case of fire, use CO2, dry chemical, or foam for extinction. Water can be used to cool and protect exposed material.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.





Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Residual oils (petroleum), solvent dewaxed	64742-62-7	21 - 99	-	
Residual oils (petroleum), hydrotreated	64742-57-0	0 - 85	-	
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	0 - 85	-	
Petroleum Distillate	NOT AVAILABLE	0.1 - 1	-	
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	4.5 - 99	-	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	0.1 - 1	-	
Lubricating oils (petroleum), C>25 hydro treated bright stock	72623-83-7	0 - 85	-	
Alkyl phenol	NOT AVAILABLE	0.1 - 1	-	

3. COMPOSITION / INFORMATION ON INGREDIENTS

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed.

Eye contact If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin Wash with plenty of soap and water while removing all contaminated clothes and shoes. Get medical attention, if needed.

Ingestion Do not induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Rinse mouth. Immediately call a poison centre/doctor.

Most important symptoms and effects, both acute and delayed

Symptoms may be delayed

Indication of any immediate medical attention and special treatment needed

Treat symptomatically





5. FIRE FIGHTING MEASURES

General fire hazards	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Suitable Extinguishing Media	Carbon dioxide, regular foam, dry chemical. Water can be used to cool and protect media: exposed material.
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 cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.
Fire Fighting procedures	No data available
Special protective equipment for fire-fighters	A positive-pressure, self-contained breathing apparatus (SCBA) and full body protective equipment is required for fire emergencies

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Ventilate closed spaces before entering them. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unwind. Keep unauthorized personnel away. See section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up	In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas.

7. HANDLING AND STORAGE

Precautions for safe handling

Vapors are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, respiratory discomfort, or nausea. Carefully evaluate processes using this product at elevated temperatures to ensure safe operating conditions. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which avoid static buildup. Avoid pouring product directly from its container into combustible or flammable solvent. Static ignition hazard can result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material. Do not breathe thermal decomposition products. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Take precautionary measures against static discharges. Ground and bond container and receiving equipment. Use non-sparking tools. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Observe good industrial hygiene practices. Use only in well-ventilated areas. Use personal protective equipment as





required. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Launder contaminated clothing before reuse. Avoid environmental contamination.

Maximum Storage/Handling temperature

35°C

Conditions for safe storage, including any incompatibilities

Store in containers made of same material as original container. Keep at temperature not exceeding 40°C. Keep container tightly closed. Keep cool. Store in a well-ventilated place. Store away from incompatible materials. See section 10 for incompatible materials. Do not store near potential sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate Engineering Controls	Mechanical ventilation or local exhaust ventilation is required.
Material controls	Should be handles in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors, or gases can escape into the room air. Use explosion-proof ventilation equipment to stay below exposure limits.
Individual protection measures, suc	h as personal protective equipment
General Information	Use explosion-proof ventilation equipment. Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/Face Protection	Wear tight-fitted goggles or face shield
Skin Protection	In case of skin contact, wash hands and arms with soap and water.
Hand Protection	Butyl rubber. Use nitrile or neoprene gloves. Use good industrial hygiene practices.
Other	Wear apron or protective clothing in case of contact. Do not wear rings, watches or similar apparel that could entrap the material.
Respiratory Protection	Use respirator with a combination organic vapor and dust/mist cartridge. Use respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene Measures	Observe good industrial hygiene practices. Do not eat, drink, or smoke when using this product. Avoid contact with skin. Avoid contact with eyes. Wash contaminated clothing before reuse. When using, do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Brown
Odor	Characteristic
Odor threshold	No information available





<u>Property</u>	<u>Values</u>	<u>Remarks</u>
рН	No data available	None known
Melting point/freezing point	No data available	None known
Boiling point/boiling range	182°C	ASTM D7213
Boiling point range	No data available	None known
Freezing point	No data available	None known
Evaporation Rate	No data available	None known
Flash point	52°C (Pensky-Martens closed cup)	ASTM D93
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability or explosive	No data available	None known
Limits		
Lower flammability or explosive	No data available	None known
Limits		
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density (@ 15°C)	0.872-0.912 15.6°C	ASTM D6822
Specific Gravity(water=1)	No data available	None known
Solubility	Insoluble in water	None known
n-Octanol/		
Water Partition coefficient	No data available	None known
Pour point	-45°C	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Viscosity	4 mm2/s (40°C)	ASTM D445
Dynamic Viscosity	No data available	None known
Other information		
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Softening Point	No information available	

No information available

No information available

No information available

No information available

10. STABILITY AND REACTIVITY

Molecular Weight

VOC Content (%)

Liquid Density

Bulk Density

Reactivity	No data available
Chemical Stability	Stable under normal conditions
Possibility of hazardous reactions	May undergo self- accelerating, exothermic reaction if heated above 212 F.
Conditions to avoid	Excessive heat. Contact with acids. Strong oxidizing agents. Strong caustic agents. Heat may cause the containers to explode. Heat, sparks, flames.
Hazardous decomposition products	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon, dioxide, and other products of incomplete combustion.
Incompatible materials	Strong acids. Aluminum. Strong oxidizing agents. Lead and lead alloys. Reactive metals, sodium, or calcium hypochlorite. Avoid heat or dehydrating agents. Reaction with peroxides may result in violent





decomposition of peroxide possible creating an explosion. Materials reactive with hydroxyl compounds. Nitriles.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposit	<u>ure</u>
Inhalation	Harmful if inhaled
Eye contact	Causes serious eye irritation
Skin contact	May be harmful in contact with skin. Causes skin irritation
Ingestion	Harmful if swallowed.
Information on toxicological effects	
Acute toxicity	
Oral	Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Ingestion of nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion, and possible loss of consciousness. ATEmix 500-2,000 mg/kg.
Dermal	Absorption of 2-ethylhexyl nitrate through the skin may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heat palpitations, confusion, and possible loss of consciousness. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts. Skin absorption of components of this material will cause systemic effects; note toxicity in other sections. Components of this material may be absorbed through the skin. ATEmix >5,000 mg/kg.
Inhalation	High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness, and stupor. Inhalation of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heat palpitations, confusion, and possible loss of consciousness. High concentrations may cause headaches, dizziness, weakness, and nausea. Repeated overexposure to petroleum naphtha can cause nervous system damage. High concentrations may cause headaches, dizziness, fatigues, nausea, vomiting, drowsiness, stupor, other central nervous system effects leading to visual impairment, respiratory failure, unconsciousness, and death. ATEmix (, 4h):2.5-50mg/l dusts, mists, and fumes.
Skin Corrosion/Irritation	Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Alcohol may enhance the toxic effects. Prolonged or repeated contact may cause irritation.
Serious Eye Damage/Eye irritation	
Remarks	Causes serious eye irritation
Respiratory sensitization	No data available
Skin Sensitization	
Petroleum naphtha	Classification: Not a skin sensitizer (Literature)
2-Ethylhexanol	Classification: Not a skin sensitizer (Literature)
2-Ethylhexanol	Classification: Not a skin sensitizer (Supplier Information)
Petroleum naphtha	Classification: Not a skin sensitizer (Literature)





Xylene	Classification: Not a skin sensitizer (Literature)	
Cumene	Classification: Not a skin sensitizer	
Specific Target Organ Toxicity-Single	Exposure	
Petroleum naphtha	Nose, throat, and lung irritant	
2-Ethylhexanol	Respiratory tract irritation	
2-Ethylhexyl nitrate	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.	
++Trimethylbenzene	Nose, throat, and lung irritant	
1,2,4-Trimethylbenzene	Nose, throat, and lung irritant	
1,3,5-Trimethylbenzene	May cause irritation to the mucous membranes and upper respiratory tract	
++1,2,3-Trimethylbenzene	Nose, throat, and lung irritant	
Petroleum naphtha	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.	
Xylene	May cause respiratory irritation	
Cumene	Respiratory tract irritation	
Aspiration Hazard	May be fatal if swallowed and enters airways	
Other effects		
Petroleum naphtha	Narcotic effect	
2-Ethylhexyl nitrate	Alcohol may enhance the toxic effects	
++Trimethylbenzene	Central nervous system blood	
Petroleum naphtha	Narcotic effect	
Propylene glycol ether	Central nervous system	
Naphthalene	Blood	
Chronic Effects		
Carcinogenicity	Not available	
Cumene	IARC 2B: Possibly carcinogenic to humans	
Naphthalene	A two-year National Toxicology Program (NTP) study found an increase incidence of nasal tumors in rats exposed to naphthalene by inhalation. In mice similarly exposed, increased incidences of alveolar/bronchiolar adenomas were observed.	
IARC Monographs on the evaluation	of Carcinogenic risks to humans	
Cumene overall evaluation	2B. Possibly carcinogenic to humans	
Naphthalene overall evaluation	2B. Possibly carcinogenic to humans	
US. National Toxicology Program (NTP) report on carcinogens		
Naphthalene	Reasonable anticipated to be a human carcinogen	
US.OSHA specifically regulated substances (29 CFR 1910.1001-1050)		

No carcinogenic components identified





Germ Cell Mutagenicity

2-Ethylhexanol	This material has not exhibited mutagenic or genotoxic potential in laboratory tests
2-Ethylhexanol nitrate	This material has not exhibited mutagenic or genotoxic potential in laboratory tests
Propylene glycol ether	The Ames Salmonella test for mutagenicity was negative for this product
Xylene	This material has not exhibited mutagenic or genotoxic potential in laboratory tests
Cumene	This material has not exhibited mutagenic or genotoxic potential in laboratory tests
Petroleum naphtha	In vitro and in vivo genetic toxicity studies were negative
Naphthalene	Naphthalene has caused mutagenic effects in in vitro studies with metabolic activation, however, in vivo studies do not show evidence of germ cell mutagenicity
Reproductive toxicity	
2-Ethylhexanol	No evidence of adverse effects was found in a developmental toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the workplace.
Xylene	Xylene is fetotoxic in rats and rabbits in the absence of maternal toxicity
Specific Target Organ Toxicity-Repeat	ed Exposure
Product	Prolonged or repeated exposure may cause kidney damage
Petroleum naphtha	Prolonged or repeated exposure may cause kidney damage
2-Ethylhexanol	Repeated overexposure may result in liver and kidney damage. A 14-day dermal toxicity study of 2- ethylhexanol in rats showed blood effects, decreased spleen weight, and decreased triglycerides.
Unknown	Target Organ(s): Blood, liver, spleen, kidney
2-Ethylhexanol nitrate	Prolonged exposure to 2-ethylhexanol nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion, and possible loss of consciousness.
Petroleum naphtha	Repeated exposure to petroleum naphtha can cause nervous system damage.
Xylene	Xylene has been found to cause cardiac, liver and kidney effects, anemia, and eye damage in laboratory animals. Prolonged and repeated inhalation of hydrocarbon solvents such as xylene can cause chronic neurological disturbances. Chronic exposure to xylene has been shown to cause hearing loss in experimental animals
Unknown Target Organs	Central nervous system, hearing
Naphthalene	Repeated overexposure to naphthalene may cause cataracts. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity Fish

Petroleum naphtha:	LC 50 (Rainbow Trout, 4 d): 9.2 mg/l
2-Ethylhexanol:	LC 50 (Fathead Minnow, 4 d): 28.2 mg/l. LC 50 (Golden Orfe, 4 d): 17.1 mg/l. NOEC (Golden Orfe, 4 d): 14 mg/l





2-Ethylhexyl nitrate:	LC 50 (Zebra Fish, 4 d): 2 mg/l
NOEC (Zebra Fish, 4 d)	1.52 mg/l
1,2,4-trimethylbenzene	LC 50 (Fathead Minnow, 4 Days): 7.72 mg/l
Petroleum naphtha	LC 50 (Rainbow Trout, 4 Days): 2 mg/l
Propylene glycol ether	LC 50 (Fathead Minnow, 4 d): > 20,000 mg/l LC 50 (Golden Orfe, 4 d): > 4,000 mg/l
Xylene	LC 50 (Fathead Minnow, 4 Days): 13.4 mg/l LC 50 (Rainbow Trout, 4 Days): 2.6 mg/l LC 50 (Rainbow Trout, 56 d): > 1.3 mg/l NOEC (Rainbow Trout, 56 d): > 1.3 mg/l
Cumene	LC 50 (Rainbow Trout, 4 d): 4.8 mg/l
Aquatic Invertebrates	
Petroleum naphtha	EC 50 (Water flea (Daphnia magna), 2 d): 3.2 mg/l
2-Ethylhexanol	EC 50 (Water flea (Daphnia magna), 2 d): 39 mg/l
2-Ethylhexyl nitrate	EC 50 (Water flea (Daphnia magna), 2 d): > 12.6 mg/l
1,2,4-trimethylbenzene	EC 50 (Water flea (Daphnia magna), 2 d): 3.6 mg/l
1,3,5-Trimethylbenzene	EC 50 (Water flea (Daphnia magna), 2 d): 6 mg/l
Petroleum naphtha	EC 50 (Water flea (Daphnia magna), 2 d): 3 mg/l
Propylene glycol ether	EC 50 (Water flea (Daphnia magna), 4 d): > 10,000 mg/l
Xylene	EC 50 (Water flea (Ceriodaphnia dubia), 7 d): > 1.17 mg/l EC 50 (Water flea (Daphnia magna), 2 d): 3.82 mg/l EC 50 (Water flea (Daphnia magna), 7 d): > 0.96 mg/l NOEC (Water flea (Ceriodaphnia dubia), 7 d): 1.17 mg/l NOEC (Water flea (Daphnia magna), 7 d): 0.96 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 1.57 mg/l NOEC (Water flea (Daphnia magna), 21 d): 1.57 mg/l
Cumene	EC 50 (Water flea (Daphnia magna), 2 d): 4 mg/l EC 50 (Shrimp (Mysidopsis Bahia), 4 d): 1.3 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 0.35 mg/l NOEC (Water flea (Daphnia magna), 21 d): 0.35 mg/l
Toxicity to Aquatic Plants	
Petroleum naphtha	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 2.9 mg/l
2-Ethylhexanol	EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 16.6 mg/l
2-Ethylhexyl nitrate	EC 50 (Alga, 3 d): 3.22 mg/l
1,3,5-Trimethylbenzene	EC 50 (Green algae (Scenedesmus quadricauda), 2 Days): 25 mg/l
Petroleum naphtha	EC 50 (Green algae (Selenastrum capricornutum), 4 d): 1.1 mg/l
Propylene glycol ether	EC 50 (Alga, 4 d): > 1,000 mg/l
Xylene	LC 50 (Alga, 3 Days): 4.36 mg/l
Cumene	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 2.6 mg/l
Toxicity to soil dwelling organisms	No data available





Sediment Toxicity	No data available
Toxicity to Terrestrial Plants	No data available
Toxicity to Above-Ground Organisms	No data available
Toxicity to microorganisms	
Petroleum naphtha	EC 50 (Sludge, 0.1 d): > 99 mg/l
2-Ethylhexanol	EC 50 (Pseudomonas putida, 0.1 d): 540 mg/l EC 50 (Sludge, 0.5 d): > 100 mg/l
2-Ethylhexyl nitrate	EC 50 (Sludge, 0.3 d): > 1,000 mg/l
Xylene	LD 50 (Bacteria, 0.1 Days): > 100 mg/l
Cumene	EC 50 (Pseudomonas putida, 1 d): > 211 mg/l
Persistence and Degradability Biodegradation	
Petroleum naphtha	OECD TG 301 F, 78 %, 28 d, readily biodegradable
2-Ethylhexanol	OECD TG 302 B, 95 %, 5 d, readily biodegradable OECD TG 301 C, 100 %, 14 d, readily biodegradable
2-Ethylhexyl nitrate	Miscellaneous, 0 %, 28 d, not readily degradable.
Petroleum naphtha	OECD TG 301 F, 58 %, 28 d, not readily degradable.
Propylene glycol ether	Miscellaneous, 82 %, 28 d, readily biodegradable
Xylene	OECD TG 301 C, 100 %, 28 d, readily biodegradable
Cumene	Miscellaneous, 86 %, 28 d, readily biodegradable
Bioaccumulative Potential Bioconcentration F	actor (BCF)
2-Ethylhexanol	Bioconcentration Factor (BCF): 25.35 (calculated)
Xylene	Bioconcentration Factor (BCF): 23.99 (Measured)
Partition Coefficient n-octanol / water (log Kov	v)
Petroleum naphtha	Log Kow: 4.5 (Measured)
2-Ethylhexanol	Log Kow: 2.9 (Measured)
2-Ethylhexyl nitrate	Log Kow: 5.24 (Measured)
1,2,4-trimethylbenzene	Log Kow: 3.63 (calculated)
Propylene glycol ether	Log Kow: -0.49 (calculated)
Xylene	Log Kow: 3.15 (Measured)
Cumene	Log Kow: 3.55 (Measured)
Mobility	
2-Ethylhexanol	soil - 1.42
2-Ethylhexyl nitrate	soil - 3.75
Other Adverse Effects	No data available.





13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Disposal Methods	Treatment, storage, transportation, and disposal must be accordance with applicable federal, state, provincial, and local regulations. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, spark, or other sources of ignition.
Contaminated packaging	Container packaging may exhibit hazards

14. TRANSPORT INFORMATION		
Transport Canada	Not regulated	
TDG	Not regulated	
DOT	Not regulated	

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

International Regulations	5

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable		Not applicable		
The Stockholm Convention on Persistent Organic Pollutants No		Not applicable		
The Rotterdam Convention		Not applicable		
Internal Inventori	es			
TSCA	Complies			
DSL/NDSL	Complies			
EINECS/ELINCS	EINECS/ELINCS Contact supplier for inventory compliance status			
ENCS	Contact supplier for inventory compliance status			
IECSC	Contact supplier for inventory compliance status			
KECL	Contact supplier for inventory compliance status			
PICCS	Contact supplier for inventory compliance status			
AICS	Contact supplier for inventory compliance status			
Legend:				
TSCA-Unites State	s Toxic Substances Control Act Section 8(b) inventory			
DSL/NDSL-Canadia	an Domestic Substances List/Non-Domestic Substances List	st		
EINECS/ELINCS-European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances				
ENCS-Japan Existin	ng and New Chemical Substances			
IECSC-China Inven	tory of Existing Chemical Substances			
KECL-Korean Exist	ing and Evaluated Chemical Substances			
PICCS- Philippines	Inventory of Chemicals and Chemical Substances			

AICS-Australian Inventory of Chemical Substances





16 OTHER I	NFORMATION						
	Health hazards	0	Flammability	1	Instability	0	Physical and chemical
		-	· · · · · · · · · · · · · · · · · · ·	_		-	properties -
HMIS	Health hazards	0	Flammability	1	Physical hazards	0	Personal protection X
			-		-		
Key or legend to	abbreviations and a	acronym	is used in the safety	data shee	<u>t</u>		
Legend Section	8: EXPOSURE CONTR	OLS/PE	RSONAL PROTECTIO	N			
TWA Ceiling	TWA (time-weigh Maximum limit v	nted ave alue	rage) STEL * Skin de	esignation	STEL (Short Term	i Exposu	re Limit)
Key literature re	eferences and source	es for da	ta used to compile th	ne SDS			
Agency for Toxic U.S. Environmer European Food S EPA (Environmer Acute Exposure U.S. Environmer Volume Chemica Food Research J Hazardous Subst International Un Japan GHS Class Australia National NIOSH (National National Library National Library National Library National Library National Toxicol New Zealand's C Organization for Organization for RTECS (Registry World Health Or	Substances and Dise stal Protection Agence Safety Authority (EFS ntal Protection Agen Guideline Level(s) (A stal Protection Agence als ournal tance Database iform Chemical Infor ification al Industrial Chemica Institute for Occupa of Medicine's Chemi of Medicine's PubMe ogy Program (NTP) chemical Classificatio Economic Co-operate Economic Co-operate of Toxic Effects of Che ganization	ease Reg cy Chem ¹ A) EGL(s)) Federa mation ils Notifi tional Sa D Plus (I ed datab n and In tion and tion and comical S	istry (ATSDR) View Database al Insecticide, Fungici Database (IUCLID) cation and Assessme afety and Health) NLM CIP) Dase (NLM PUBMED) formation Database (Development Enviro Development High P Development Screer Substances)	de, and Re nt Scheme (CCID) nment, He roduction ning Inforr	odenticide Act U.S. e (NICNAS) ealth, and Safety Pub Volume Chemicals F nation Data Set	Environr	mental Protection Agency High Production
Issuing Date		2	-Feb-2022				
Revision date		2-	Feb-2022				
Revision Note		N	o information availab	le.			
Disclaimer							

The information provided in this 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





Data for Regulatory Rules

Region	Template name	Revision Note
Canada	HGHS	2.0

	GHS Product Information
Physical state	Liquid
Flash point °C -	52°C (Pensky-Martens closed cup)
Boiling point / boiling range °C	182°C

Component Information

	Canada
GHS Classification	
Hazardous	Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Signal word	Danger
Precautionary Statements	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable



