



SAFETY DATA SHEET

Version: 1.0

Revision Date: 12/24/2020

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. Please determine your responsibilities under your local regulations.

1. Identification of the substance or mixture and of the supplier

Identification

Product Name: Gas Enhance
Additional identification
Chemical name: Not applicable for mixtures.

Recommended use and restriction on use

Recommended use: Not Determined
Restrictions on use: Not Determined

Details of the supplier of the safety data sheet

Company Name: Opti-Lube Inc
Address: 1646 W Business Park Drive, Suite B
Orem, UT 84058
USA
Telephone: 801-491-3717

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL (+1) 801-850-8553, OR WITHIN THE USA 801-491-3717

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Skin Irritation Category 2
Eye damage Category 2A
Mutagenicity Category 1B
Carcinogenicity Category 1B
Specific Target Organ Toxicity -
Single Exposure Category 3
Aspiration Toxicity Category 1
Aquatic Toxicity Category 3



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Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause genetic defects.
May cause cancer.
Harmful to aquatic life with long lasting effects.

Precautionary Phrases:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat / sparks / open flames / other ignition sources – No smoking.
Keep container tightly closed.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust / fume / gas / mist / vapors / spray.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves / protective clothing / eye protection / face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
IF INHALED: Call a POISON CENTER or doctor / physician 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.



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IF exposed or concerned: Get medical advice or attention.
Specific treatment (see information on this label).
Do NOT induce vomiting.
IF SKIN IRRITATION OCCURS: Get medical advice / attention.
If eye irritation persists: Get medical advice / attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use extinguishing media listed in Section 5 of this SDS for extinction.

Storage and Disposal:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents / container in accordance with local and national regulations.

3. Composition/Information on Ingredient

Chemical name	CAS number	Percent by Weight
Solvent naphtha (petroleum), light aromatic	64742-95-6	25 – 50%
Distillates (petroleum), hydrotreated light	64742-47-8	25 – 50%
1,2,4-trimethyl benzene	95-63-6	10 – 25%
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products	Proprietary	5 – 10%
Paraffins (petroleum) C5-C20	Proprietary	1 – 5%
Cumene	98-82-8	1 – 5%
Hydrocarbon solvent	64742-48-9	1 – 5%
Xylene	1330-20-7	1 – 5%

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid Measures

General Information: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Eye Contact: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.



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Most important symptoms and effects, both acute and delayed:

Overview: Reproductive or genetic defect hazard. Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Check section 2.2 (GHS Label Elements) for further details.

5. Fire-fighting measures

Flash Point: 120.9°F (49.3°C)

Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media: Alcohol resistant foam, CO₂, powder, water spray

Unsuitable extinguishing media: Do not use water jet.

Specific hazard arising from the Substance or Mixture

Hazardous Composition Products: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Advice for Firefighters: As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

6. Accidental release measures

Protective Precautions, Protective Equipment and Emergency Procedures: Put on appropriate personal protective equipment (see Section 8).

Environment Precautions: Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleanup: Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

7. Handling and Storage

Precautions To Be Taken In Handling: Handle containers carefully to prevent damage and spillage. Check Section 2 (GHS label elements) for further details.



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Conditions for safe storage, including any incompatibilities: Incompatible materials: Strong oxidizing agents and acids. Check Section 2 (GHS label elements) for further details.

8. Exposure Controls / Personal Protection

Control Parameters:**Occupational Exposure Limits**

Chemical name	Case Number	Source	Value
1,2,4-trimethyl benzene	95-63-6	OSHA ACGIH NIOSH	No established limit No established limit TWA 25 ppm (125 mg/m3)
Cumene	98-82-8	OSHA ACGIH NIOSH	TWA 50 ppm (245 mg/m3) [skin] 50 ppm TWA TWA 50 ppm (245 mg/m3) [skin]
Xylene	1330-20-7	OSHA ACGIH NIOSH	No Established Limit STEL 150 pp TWA: 100 ppm STEL: 150 ppm No Established Limit
Distillates (petroleum), hydrotreated light	64742-47-8	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Hydrocarbon solvent	64742-48-9	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Solvent naphtha (petroleum), light aromatic	64742-95-6	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Paraffins (petroleum) C5-C20	Proprietary	OSHA ACGIH NIOSH	No established limit No established limit No established limit
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	Proprietary	OSHA ACGIH NIOSH	No established limit No established limit No established limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

Occupational Exposure Controls

Respiratory Protection: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eye/face protection: Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin and Body Protection: Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.



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Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	Liquid
Odor:	Not Provided
Odor Threshold:	Not determined
pH:	Not measured
Melting/Freezing Point:	Not measured
Initial Boiling Point and Boiling Range:	Not measured
Flash Point:	120.9°F (49.3°C)
Evaporation Rate (Ether = 1):	Not measured
Flammability (solid, gas):	Not applicable
Upper / Lower Flammability or Explosive Limits:	
Flammability limit – upper (%):	Not measured
Flammability limit – lower (%):	Not measured
Vapor Pressure (Pa):	Not measured
Vapor Density:	Not measured
Relative Density:	Not measured
Solubility in Water:	Not measured
Partition Coefficient n-octanol / water (Log Kow):	Not measured
Auto-ignition temperature:	Not measured
Decomposition Temperature:	Not measured
Viscosity:	Not measured
Density:	0.8648 g/mL (7.217 lb/gal)

10. Stability and reactivity

Reactivity:	Hazardous Polymerization will not occur.
Chemical stability:	Stable under normal circumstances.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Excessive heat and open flame.
Incompatible Materials:	Strong oxidizing agents and acids.
Hazardous Decomposition Products:	High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.



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11. Toxicological Information

Acute Toxicity:

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50,	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	6,800.00, Rat - Category: NA	3,400.00, Rabbit - Category: 5	No data available	No data available	No data available
Distillates (petroleum), hydrotreated light - (64742-47-8)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available
1,2,4-trimethyl benzene - (95-63-6)	3,400.00, Rat - Category: 5	3,160.00, Rabbit - Category: 5	18.00, Rat - Category: 4	No data available	No data available
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia - (Proprietary)	No data available	No data available	No data available	No data available	No data available
Paraffins (petroleum) C5-C20 - (Proprietary)	5,000.00, Rat - Category: 5	3,160.00, Rabbit - Category: 5	No data available	No data available	No data available
Cumene - (98-82-8)	1,400.00, Rat - Category: 4	10,627.00, Rabbit - Category: NA	No data available	No data available	No data available
Hydrocarbon Solvent - (64742-48-9)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit -	No data available	No data available	No data available
Xylene - (1330-20-7)	4,299.00, Rat - Category: 4	1,548.00, Rabbit - Category: 4	No data available	20.00, Rat - Category: NA	5,000.00, Rat - Category: 4

Carcinogen Data

CAS No.	Ingredient	Source	Value
95-63-6	1,2,4-trimethyl benzene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit
98-82-8	Cumene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit



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1330-20-7	Xylene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No A4
64742-47-8	Distillates (petroleum), hydrotreated light	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit
64742-48-9	Hydrocarbon Solvent	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit
64742-95-6	Solvent naphtha (petroleum), light aromatic	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit
Proprietary	Paraffins (petroleum) C5- C20	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit
Proprietary	1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not applicable
Acute toxicity (dermal)	---	Not applicable
Acute toxicity (inhalation)	---	Not applicable
Skin corrosion / irritation	2	Causes skin irritation.
Serious eye damage / irritation	2A	Causes serious eye irritation.
Respiratory sensitization	---	Not applicable
Skin sensitization	---	Not applicable
Germ cell mutagenicity	1B	May cause genetic defects.
Carcinogenicity	1B	May cause cancer.
Reproductive toxicity	---	Not applicable
STOT – single exposure	3	May cause respiratory irritation.
STOT – repeated exposure	---	Not applicable
Aspiration hazard	1	May be fatal if swallowed and enters airways.

12. Ecological Information

Toxicity:

Harmful to aquatic life with long lasting effects. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l



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Solvent naphtha (petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
Distillates (petroleum), hydrotreated light - (64742-47-8)	20.00, Oncorhynchus mykiss	1.40, Daphnia magna	8.30 (72 hr), Pseudokirchneriella subcapitata
1,2,4-trimethyl benzene - (95-63-6)	7.72, Pimephales promelas	3.60, Daphnia magna	2.356 (96 hr), Green algae
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia - (Proprietary)	Not available	Not available	Not available
Paraffins (petroleum) C5-C20 - (Proprietary)	5,000.00, Pimephales promelas	Not available	Not available
Cumene - (98-82-8)	2.70, Oncorhynchus mykiss	10.60, Daphnia magna	2.60 (72 hr), Pseudokirchneriella subcapitata
Hydrocarbon Solvent - (64742-48-9)	18.00, Oncorhynchus mykiss	4.50, Daphnia magna	3.10 (72 hr), Pseudokirchneriella subcapitata
Xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales

Persistence and Degradability There is no data available on the preparation itself.

Bioaccumulative Potential: Not measured.

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: This product contains no PBT/vPvB chemicals.

Other Adverse Effects: No data available.

13. Disposal considerations

Waste Disposal Methods: Observe all federal, state and local regulations when disposing of this substance.

14. Transport Information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO / IATA
UN Number:	UN 1993	UN 1993	UN 1993
UN Proper Shipping Name:	Flammable liquids, n.o.s., (1,2,4-trimethyl benzene)	Flammable liquids, n.o.s., (1,2,4-trimethyl benzene)	Flammable liquids, n.o.s., (1,2,4-trimethyl benzene)
Transport Hazard Class (es)	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not applicable	Air Class: 3



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Packing Group:	III	III	III
		Marine Pollutant: No	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transport of the material. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory Information

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA):	All components of this material are either listed or exempt from listing on the TSCA Inventory.
EPCRA 302 Extremely Hazardous:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	1,2,4-trimethyl benzene Cumene Xylene
Proposition 65 – Carcinogens (>0.0%):	Cumene
Proposition 65 – Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Female Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 Label Warning:	WARNING: This product can expose you to chemicals including [Cumene], which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

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

HMIS Hazard ID

Health	2
Flammability	2



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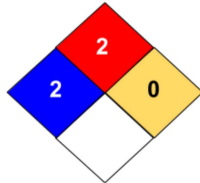
Physical Hazards

0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating Not Possible;

*Chronic health effect

NFPA Hazard ID



Flammability

Health

Physical Hazards

Reactivity

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating Not Possible;

Issue Date: 12/24/20

Version #: 1.0

Source of Information: Internal Company data and other publically available resources.

Further Information: Contact Supplier (see Section 1)

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