

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 7/10/2020 Revision date: 5/18/2023 Supersedes: 3/27/2023 Version: 1.5

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : GEAR GUARD™ AEROSOL

1.2. Recommended use and restrictions on use

Use of the substance/mixture : OPEN GEAR LUBRICANT

Recommended use : Lubricants, Greases and Release Products

1.3. Supplier

Supplier

Whitmore Manufacturing LLC 930 Whitmore Drive Rockwall, Texas, 75087 USA T 1.972.771.1000

Regulatory@whitmores.com - www.jetlube.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call Ricardo Emergency Response 24hr/day 7days/week

Within USA and Canada: +1.215.207.0061 Outside USA and Canada: +44.1235.239670

(collect calls accepted)

Country/Area	Organization/Company	Address	Emergency number	Comment
United States	Ricardo-United States		+1.866.928.0789 (toll-free, US only)	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable aerosol Category 1 H222 Extremely flammable aerosol

Aspiration hazard Category 1 H304 May be fatal if swallowed and enters airways

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H222 - Extremely flammable aerosol

H304 - May be fatal if swallowed and enters airways

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P301+P310 - If swallowed: Immediately call a poison center or doctor.

P331 - Do NOT induce vomiting.

P405 - Store locked up.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

oial mixtures			
Name	Product identifier	%	GHS US classification
distillates, hydrotreated light	CAS-No.: 64742-47-8	20 – 40	Flam. Liq. 3, H226 Asp. Tox. 1, H304
acetone	CAS-No.: 67-64-1	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after ingestion : Risk of lung edema.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not

spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

5/18/2023 (Revision date) US - en 2/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up.

Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone (67-64-1)

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USA - ACGIH - Occupational Exposure Limits			
Local name	Acetone		
ACGIH OEL TWA	250 ppm		
ACGIH OEL STEL	500 ppm		
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
Regulatory reference	ACGIH 2021		
USA - OSHA - Occupational Exposure Limits			
Local name	Acetone		
OSHA PEL TWA	2400 mg/m³		
	1000 ppm		

OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Neoprene or nitrile rubber gloves

Regulatory reference (US-OSHA)

Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm	

Eye protection:

Wear eye protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Aerosol.
Color : Black
Odor : Acetone

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available : No data available

5/18/2023 (Revision date) US - en 3/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point : No data available

Flash point : > 221 °C

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Vapor pressure : No data available
Relative vapor density at 20°C : No data available
Relative density : No data available
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity, kinematic : < 20.5 mm²/s @ 40 °C (Liquid portion)

Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

VOC content : 260 g/l

Gas group : Press. Gas (Liq.)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

distillates, hydrotreated light (64742-47-8)			
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)		
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -		
acetone (67-64-1)			
LD50 oral rat	5800 mg/kg body weight Animal: rat, Animal sex: female		
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)		
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4		
LC50 Inhalation - Rat (Vapors)	76 mg/l Source: ECHA		
ATE US (oral)	5800 mg/kg body weight		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

acetone (67-64-1)	
ATE US (dermal)	20000 mg/kg body weight
Skin corrosion/irritation	: Not classified
acetone (67-64-1)	
рН	7 (10 g/l)
Serious eye damage/irritation	: Not classified
acetone (67-64-1)	
рН	7 (10 g/l)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
distillates, hydrotreated light (64742-47-	8)
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male
acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg body weight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)
STOT-single exposure	: Not classified
acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
distillates, hydrotreated light (64742-47-	8)
NOAEL (oral,rat,90 days)	750 mg/kg body weight Animal: rat, Animal sex: female
NOAEC (inhalation,rat,vapor,90 days)	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: < 20.5 mm²/s @ 40 °C (Liquid portion)
distillates, hydrotreated light (64742-47-	8)
Viscosity, kinematic	1.97 mm ² /s (25 °C)
acetone (67-64-1)	
Viscosity, kinematic	0.417 mm ² /s
Symptoms/effects after ingestion	: Risk of lung edema.
SECTION 12: Ecological information 12.1. Toxicity Ecology - general	: Toxic to aquatic life with long lasting effects.
distillates, hydrotreated light (64742-47-	8)
LC50 - Fish [1]	2.2 mg/l
EC50 - Crustacea [1]	> 100 mg/l (Invertebrata)
acetone (67-64-1)	
LC50 - Fish [1]	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

acetone (67-64-1)		
EC50 96h - Algae [1]	> 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

12.2. Fel Sisterice and degradability				
GEAR GUARD™ AEROSOL				
Persistence and degradability Not rapidly degradable				
distillates, hydrotreated light (64742-47-8)				
Persistence and degradability	Readily biodegradable in water.			
acetone (67-64-1)				
Persistence and degradability	Biodegradable in the soil, Biodegradable in the soil under anaerobic conditions, Readily biodegradable in water.			
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance			
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance			
ThOD	2.2 g O ₂ /g substance			
BOD (% of ThOD)	0.872 (20 day(s), Literature study)			

12.3. Bioaccumulative potential

distillates, hydrotreated light (64742-47-8)			
Partition coefficient n-octanol/water (Log Pow)	6 – 8.2		
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).		
acetone (67-64-1)			
BCF - Fish [1]	0.69 (Pisces)		
BCF - Other aquatic organisms [1]	3 (BCFWIN, Calculated value)		
Partition coefficient n-octanol/water (Log Pow)	-0.24 (Test data)		
Bioaccumulative potential	Not bioaccumulative.		

12.4. Mobility in soil

distillates, hydrotreated light (64742-47-8)			
Surface tension	0.026 N/m (20 °C)		
Ecology - soil Adsorbs into the soil.			
acetone (67-64-1)			
Surface tension	0.0237 N/m		
Ecology - soil No (test) data on mobility of the substance available.			

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT	TDG	IMDG	IATA				
4.1. UN number							
UN1950	UN1950	1950	1950				
14.2. Proper Shipping Name	4.2. Proper Shipping Name						
Aerosols	AEROSOLS	AEROSOLS (MIXTURE)	Aerosols, flammable (MIXTURE)				
Transport document description							
UN1950 Aerosols, 2.1	UN1950 AEROSOLS, 2.1	UN 1950 AEROSOLS (MIXTURE), 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1950 Aerosols, flammable (MIXTURE), 2.1, ENVIRONMENTALLY HAZARDOUS				
14.3. Transport hazard class(es	14.3. Transport hazard class(es)						
2.1	2.1	2.1	2.1				
PLANMARIE GAS	2	2	2 2				
14.4. Packing group							
Not applicable	Not applicable	Not applicable	Not applicable				
14.5. Environmental hazards							
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes				
No supplementary information available							
14.6. Special precautions for us	er						

14.6. Special precautions for user

DOT

UN-No. (DOT) : UN1950

DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306 DOT Packaging Non Bulk (49 CFR 173.xxx) : None DOT Packaging Bulk (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : 75 kg (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 150 kg

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 25 - Protected from sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

TDG

UN-No. (TDG) : UN1950

: 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General **TDG Special Provisions**

Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less

than or equal to 50 mL.

(2) Subsection (1) does not apply to self-defence spray.

Explosive Limit and Limited Quantity Index : 1 L Excepted quantities (TDG) : E0

5/18/2023 (Revision date) US - en 7/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Passenger Carrying Road Vehicle or Passenger

Carrying Railway Vehicle Index

: 75 L

Emergency Response Guide (ERG) Number : 126

IMDG

Special provision (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200
Packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provision (IATA) : A145, A167, A802

ERG code (IATA) : 10L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

acetone (67-64-1)

CERCLA RQ 5000 lb

15.2. International regulations

CANADA

distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

distillates, hydrotreated light (64742-47-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

acetone (67-64-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

distillates, hydrotreated light (64742-47-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

acetone (67-64-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

15.3. US State regulations



This product can expose you to Quartz, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
magnesium carbonate(546-93-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List
Distillates (petroleum), hydrotreated light naphthenic(64742-53-6)	U.S Massachusetts - Right To Know List
graphite(7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
molybdenium(IV) sulfide(1317-33-5)	U.S Massachusetts - Right To Know List; U.S New York City - Right to Know Hazardous Substances List
acetone(67-64-1)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Butane(106-97-8)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
Propane(74-98-6)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
chalk(1317-65-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 5/18/2023

Full text of hazard classes and H-statements	
H222	Extremely flammable aerosol

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements	
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.