

# SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS #: 083626 VESTAN PAG GEAR LUBE 320

Date of the previous version: 2015-10-13 Revision Date: 2019-04-08 Version 2

1. IDENTIFICATION

**Product identifier** 

Product name VESTAN PAG GEAR LUBE 320

Other means of identification

Product Code(s) 083626

NumberCGLSubstance/mixtureMixture

Recommended use of the chemical and restrictions on use

**Identified uses** Gear oil. Lubricant for food industry.

**Uses advised against**Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

**Supplier Address** TOTAL Specialties USA, Inc.

1201 Louisiana St. Suite 1800

Houston, TX 77002 Phone: 713-483-5000

Contact Point Technical/ HSEQ

E-mail Address ProductSafety@total.com

Emergency telephone number

**Company Phone Number** +1 (908) 862-9300

**Emergency telephone** 1-866-928-0789 (For Emergencies, call CARECHEM 24/7

Domestic)

1-215-207-0061 (For Emergencies, call CARECHEM 24/7

International)

# 2. HAZARDS IDENTIFICATION

# Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)



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### Hazards not otherwise classified (HNOC)

None known

Other information

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

**Environmental properties**The product may form an oil film on the water surface that may stop the oxygen exchange.

Should not be released into the environment.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS-No	Weight %
Oxirane, 2-methyl, polymer with oxirane,	9038-95-3	75-<100
monobuthyl ether		

## 4. FIRST AID MEASURES

## First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep

eye wide open while rinsing.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may

cause skin damage. Take victim immediately to hospital.

**Inhalation** Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration. Inhalation of high concentrations of vapor or aerosols

may cause irritation of the upper respiratory tract.

**Ingestion** Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use



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> mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact Not classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent.

Not classified based on available data. Eye contact

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

**Symptoms** No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Notes to physician

5. FIRE-FIGHTING MEASURES

Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog. Suitable Extinguishing Media

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

Special Hazard 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. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S, Mercaptans, Nitrogen oxides (NOx), Phosphorous oxides, Hydrogen fluoride. Hydrogen chloride. Sodium

oxides. Silicon dioxide, Zinc oxides.

**Explosion Data** 

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge

None. None.

Protective Equipment and **Precautions for Firefighters**  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear. Evacuate non-essential personnel.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.



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**Other information** See Section 12 for additional information.

**Environmental precautions** 

**General Information** Do not allow material to contaminate ground water system. Prevent entry into waterways,

sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water

courses. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

**Methods for containment**Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or

similar non-combustible materials.

**Methods for cleaning up**Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for

disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according

to local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling** For personal protection see section 8. Use only in well-ventilated areas. Do not breathe

vapors or spray mist. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Oil leaks in a pressurized circuit may result in a fine flammable spray (the

lower flammability limit for oil mist is reached for a concentration of about 45g/m<sup>3</sup>).

**Prevention of fire and explosion** Take precautionary measures against static discharges.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry

hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets. Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by

contact with soiled clothing.

Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture. Protect from frost, heat and sunlight. Keep in properly labeled containers.



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Materials to Avoid Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### **Exposure limits**

Do not contain substance with occupational exposure limits in concentration above regulatory thresholds

#### **Exposure controls**

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the

recommended equipment.

### Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal

protective equipment is considered. The personal protective equipment (PPE)

recommendations apply to the product ITSELF. In case of mixtures or formulations, it is

suggested that you contact the relevant PPE suppliers.

**Eye/face protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

**Hand Protection** Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which

the product is used, such as the danger of cuts, abrasion, and the contact time.

**Respiratory protection** 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. Warning! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry



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Remarks

hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing.

Method

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Physical and chemical properties**

**Property** 

Appearance limpid
Color clear
Physical State @20°C liquid
Odor Mild

Odor Threshold No information available

Values

Not applicable рΗ Melting point/range No information available Boiling point/boiling range > 315 °C > 599 °F Flash point 260 - 270 °C Cleveland Open Cup (COC) 500 - 518 °F Cleveland Open Cup (COC). **Evaporation rate** No information available Flammability Limits in Air No information available No information available upper No information available Lower No information available **Vapor Pressure** . Vapor density No information available Relative density 1.056 @ 15 °C **ASTM D 1298** @ 15 °C **Density** 1056 kg/m3 **ASTM D 1298** Not applicable Water solubility Solubility in other solvents No information available logPow No information available **Autoignition temperature** No information available **Decomposition temperature** No information available 288 - 252 mm2/s @ 40 °C ASTM D 445 Viscosity, kinematic Not explosive **Explosive properties** 

**Other information** 

**Oxidizing Properties** 

Possibility of hazardous reactions

Specific Gravity 1.056 @ 15 °C ASTM D 1298

Freezing Point No information available

Not applicable

Not applicable

Pour point -42 °C ASTM D 97

## 10. STABILITY AND REACTIVITY



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Reactivity None under normal processing.

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of hazardous reactions 
No dangerous reaction known under conditions of normal use. None under normal

processing.

Conditions to avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Take

precautionary measures against static discharges.

<u>Incompatible materials</u> Strong oxidizing agents.

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S, Mercaptans, Phosphorous oxides, Nitrogen oxides (NOx), Hydrogen fluoride, Sodium oxides, Hydrogen

chloride, Silicon dioxide, Zinc oxides.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

**Symptoms** No information available.

**Skin contact** Not classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent.

**Eye contact** Not classified based on available data.

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

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

Acute toxicity - Product Information

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Oral Not classified based on available data

**Dermal** Not classified based on available data

Inhalation Not classified based on available data

**Acute toxicity - Component Information** 



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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxirane, 2-methyl, polymer with oxirane, monobuthyl ether 9038-95-3	LD50 > 2000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	LC50 (4h) > 5.01 mg/l (Rat)

Skin corrosion/irritationNot classified based on available data.SensitizationNot classified based on available data.CarcinogenicityNot classified based on available data.

Germ Cell MutagenicityNot classified based on available data.Reproductive toxicityNot classified based on available data.Target Organ Effects (STOT)None known.

STOT - single exposure
Aspiration hazard
Not classified based on available data.
Not classified based on available data.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Acute aquatic toxicity - Product Information

No information available

Acute aquatic toxicity - Component Information

No information available

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and	Toxicity to
			other aquatic invertebrates	microorganisms
Oxirane, 2-methyl, polymer		LC50 (96h) > 100 mg/l	EC50 (48h) > 100 mg/l	
with oxirane, monobuthyl		(Poecilia reticulata - static)	(Daphnia magna - static)	
ether				
9038-95-3				ļ

### **Chronic aquatic toxicity - Product Information**

No information available

**Chronic aquatic toxicity - Component Information** 

No information available

**Effects on terrestrial organisms** No information available.

Persistence and degradability

**General Information** No information available.



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Bioaccumulative potential

**Product Information** No information available.

logPow No information available

Component Information No information available.

**Mobility** 

**Soil** Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water. The product is insoluble and sinks in water

Other adverse effects

**General Information** No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment

**Waste Disposal Methods** Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

# 15. REGULATORY INFORMATION



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# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden Release of Pressure Hazard

No
Reactive Hazard

No

### **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).

### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **U.S. State Regulations**

### **California Proposition 65**

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

#### U.S. State Right-to-Know Regulations

No information available

### 16. OTHER INFORMATION



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NFPA Health Hazard 1 Flammability 1 Instability 0 Special hazards - HMIS Health Hazard 1 Flammability 1 Physical Hazard 0 Personal protection b

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

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Revision Note \*\*\* Indicates updated section

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

## Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of the Safety Data Sheet**