



Material Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Production Name: Full-Synthetic High Temp. Chain Lube SuperChem290G

Date of Preparation: 06 Aug.2015

Date of Audit: 08, August. 2022

Company: AIGI Environmental Incorporation

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, this product does not meet the classification criteria for any hazard category.

2.2 Label Elements:

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 obtains MSDS as required.

2.3 Other hazards: No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Mixture

| Ingredients | % Wt. | CAS |
|--|--------|-------------|
| Polyether | 95~98% | / |
| β- (3,5-di-tert-butyl-4-hydroxyphenyl) isooctanol propionate | 1~5% | 125643-61-0 |
| Diphenylamine containing butyl and octyl groups | 1~5% | 68411-46-1 |
| Thioaminoester | 1~5% | / |

SECTION 4: FIRST AID MEASURES

Inhalation: Symptoms may occur after inhalation of decomposition products in case of fire. In case of accidental inhalation, remove to fresh air to keep breathing smooth. Contact physician if expiratory dyspnea persists.

Skin contact: Rinse skin thoroughly with soap water and clean water for at least 15 minutes and remove contaminated clothes and shoes. Wash clothes before reuse. Clean shoes thoroughly before reuse.

Contact physician if irritation persists.

Eye contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.

Ingestion: Do not induce vomiting, unless directed by a physician. In case of spontaneous vomiting, tilt the body forward to reduce the risk, and send to the hospital immediately. Do not give any oral products to the unconscious. If swallowed in large quantities, contact physician immediately. If the person is



conscious, please wash his mouth with water. If harmful health effects persist or worsen, seek medical advice.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water fog. Keep the container and environment cool with misty water.

Unsuitable extinguishing media: Do not use water spray pipes.

Special hazards: Harmful smoke will emit when catch fire.

Special fire extinguishing measures: Recommend Firefighters wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal protective measures: wear protective clothing.

Environmental protection measures and disposal methods: Please limit the spillages. For a small amount of spillages, use absorbent (sediment can be used if there is no other applicable substance), collect the spillage, and place it in a sealed, leak proof container for disposal. For large spillages, use cofferdams or other closure materials to contain the spillages to ensure that it does not flow into rivers, flood discharge ditches, sewers or drinking water sources. Spillages should be disposed of in a suitable container. If the spillages has entered waterways and sewers, or has polluted the soil and vegetation, please inform the local government.

SECTION 7: HANDLING AND STORAGE

Operation and disposal: Prevent a small amount of spillage and leakage, and avoid the danger of slipping. Avoid inhaling aerosols from heated materials. There shall be effective ventilation equipment and extraction system to minimize inhalation when exposed to aerosol or steam in heated products. Wash hands thoroughly before eating, drinking or smoking, and avoid contact with eyes, skin and clothing.

Conditions for safe storage: Keep containers closed. Keep the container in a cool and ventilated place. If it is stored in the open air, sunshade and rainproof measures shall be taken, and it shall not be stored in open or unmarked containers. Do not expose to high temperature for a long time.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Maximum allowable concentration: This product has no maximum allowable concentration limit for the working environment.

Monitoring method: provide exhaust ventilation or other engineering control to make the vapor concentration in the air lower than the limit of occupational exposure standards.

Engineering control: no relevant data.

Respiratory protection: Not normally needed. If contact needed, it is recommended to wear a protective mask. It is good practice in the industry to maintain adequate ventilation.

Eye protection: Not normally needed. If contact needed, it is recommended to wear safety glasses with side shields.

Skin and body protection: In general, it is not necessary to protect the skin when using it. Keep good personal hygiene habits, and take preventive measures to avoid skin contact, such as wearing impermeable work clothes.



Hand protection: It is generally unnecessary to protect under normal use conditions. If necessary, it is recommended to wear oil resistant gloves.

Hygienic measures: keep good personal hygiene habits, wash hands thoroughly after operating or handling the product, and wash your hands before eating, drinking or smoking. Clean work clothes and protective equipment regularly to remove contaminants.

Other protection: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are as follows. For more information, consult the supplier.

| | |
|---|--|
| Physical state : Liquid | Colour : Faint yellow |
| Odour : mild odour | PH : No data available |
| Melting point : No data available | Boiling point : No data available |
| Relative density(water=1) : 1.06~1.12 | Vapour density (air=1) : No data available |
| Flast point(open) : >200°C | Ignition temperature : No data available |
| Lower explosive limit (LEL) : Not determined | Upper explosive limit (UEL) : Not determined |
| Combustion heat (kJ/mol) : Not determined | Auto-ignition temperature : No data available |
| Saturated vapor pressure(kPa) : <0.001(20°C) | Water solubility : Soluble |
| N-octanol/water partition coefficient logarithm : Not determined | |
| Evaporation rate (n-butyl acetate=1) : Not determined | |

SECTION 10: STABILITY AND REACTIVITY

Chemical stability : Stable

Forbidden compound : Strong oxidants, such as liquid chlorine and concentrated oxygen.

Conditions to avoid : Open flames and overheat.

Hazardous reactions : None

Hazardous substances generated by decomposition: will not decompose under normal use conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute effect: very low acute toxicity

| | | |
|--------|--------------|-------------|
| Oral | LD50, rat | >16000mg/kg |
| Dermal | LD50, rabbit | >16000mg/kg |

Eye irritation: The single application to rabbit eyes caused minimal conjunctival irritation.

Skin irritation: In the semi occluded state, single use, contact with rabbits for 4 hours, causing the smallest irritation sign of intact rabbit skin (the average value of erythema or edema does not exceed 2 position)

Subacute and chronic toxicity: Long term exposure to aerosols or smoke may cause lung damage.

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: This product can be partially or slowly biodegradable, with BOD content of 22~25%.

Bioaccumulative potential: Not expected to bioaccumulate.

Ecological toxicity: Harmless to aquatic organisms.

Mobility: This product is non-volatile and soluble in water.

SECTION 13: DISPOSAL CONSIDERATIONS



Waste property: Non-hazardous waste

Disposal recommendations: Dispose according to relevant local laws and regulations. Incineration is recommended for disposal. The label shall not be torn off before the container is cleaned. The contaminated container shall not be treated as daily waste, and shall be recycled or incinerated after being cleaned by appropriate methods, depending on the situation.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

- 14.1 UN number: No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1 UN number: No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1 UN number: No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1 UN number: No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards: No

14.6 Special precautions for user: No information available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: No information available.

SECTION 15: REGULATORY INFORMATION

This MSDS complies with the following national standards

- 《Content and Project Sequence of Safety Data Sheet for Chemicals 》 (GB/T16483-2008)
- 《General Rules for Classification and Hazard Publicity of Chemicals 》 (GB13690-2009)
- 《Classification and Name Number of Dangerous Goods 》 (GB6944-2012)
- 《Classification Method for Transport Packaging of Dangerous Goods 》 (GB/T15098-2008)
- 《Guidelines for the Preparation of Labels of Hazardous Chemicals 》 (GB15258-2009)
- 《Classification and Name Number of Dangerous Goods 》 (GB6944-2012)



- 《Packaging Marks for Dangerous Goods 》 (GB190-2009)
- 《Pictorial Marks for Packaging, Storage and Transportation 》 (GB/T191-2008)
- 《List of Dangerous Goods 》 (GB12268-2012)
- 《General Rules for Storage of Common Dangerous Goods 》 (GB15603-1995)
- 《General Technical Conditions for Transport Packaging of Dangerous Goods 》 (GB12463-1990)
- 《General Rules for Classification and Safety of Chemicals 》 (GB13690-2009)
- 《Specifications for Classification and Labeling of Chemicals 》 (GB30000)

And the following rules:

- 《Provisions on the Administration of Road Transport of Dangerous Goods 》 (Decree No. 2, 2013 of the Ministry of Transport of the People's Republic of China)
- 《Regulations on the Administration of Railway Transport of Dangerous Goods 》 (2008 Edition of the Ministry of Railways of the People's Republic of China)
- 《Regulations on the Safety Management of Hazardous Chemicals 》 (promulgated by the State Council in 2013)
- 《List of the Most Common Dangerous Goods 》
- 《Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes 》
- 《Recommendations on the Transport of Dangerous Goods 》 United Nations (UN TRDG)

SECTION 16: OTHER INFORMATION

Key literature references

1. Zhou Guotai, Safety Technology of Dangerous Chemicals, Chemical Industry Press, 1997
2. Toxic Chemicals Management Office of the State Environmental Protection Administration, Beijing Institute of Chemical Industry, Environmental Data Manual of Chemical Toxicity Regulations, China Environmental Science Press, 1992
3. New Safety Manual for Dangerous Goods, Chemical Industry Press, April 2001
4. 《Catalogue of Hazardous Chemicals (2015 Edition)》

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