

Chemical Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Number(s): 219900, 510586

Product Name: Delo XLI Corrosion Inhibitor - Concentrate

Company Name: Chevron (China) Investment Co., Ltd.

Company Address:

Unit 2308, China World Tower Office 2

No. 1 Jianguomenwai Avenue

Beijing 100004

People's Republic of China

Phone Number: 86 10 -5812 6300

Fax number: (86-10) 5812 6599

Email Address: CNLubesWeb@chevron.com

Emergency Phone Number: China: National Registration Centre for Chemicals: 0532-83889090

Recommended Use of the Chemical and Restrictions on Use: Heavy Duty Coolant

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Green (fluorescent) Liquid

- MAY DAMAGE FERTILITY OR THE UNBORN CHILD

GHS CLASSIFICATION:

Health Hazards:

- Reproductive toxicant: Category 1B.

Label elements

Pictogram(s):



Signal Word: Danger

HAZARD STATEMENTS:

- May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

- IF exposed or concerned: Get medical advice or attention.

Storage:

- Store locked up.

Disposal:

- Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

Physical Hazards: Not Applicable**Health Hazards:**

- May damage fertility or the unborn child.

Environmental Hazards: Not Applicable**SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	The concentration or the concentration range (mass fraction, wt%)
Sodium 2-ethylhexanoate	19766-89-3	10 - 30 %weight
Tolyltriazole	29385-43-1	1 - < 2.5 %weight
Imidazole	288-32-4	0.1 - < 0.3 %weight

SECTION 4 FIRST AID MEASURES**First Aid:**

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects**IMMEDIATE HEALTH EFFECTS:**

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled.

DELAYED OR OTHER HEALTH EFFECTS:

Reproduction and Birth Defects: Swallowing this material may cause harm to the unborn child based on animal data. See Section 11 for additional information. Risk depends on duration and level of exposure.

Note to Physicians: Not Applicable

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

UNSUITABLE EXTINGUISHING MEDIA: No data available

Special Hazards and Risks: Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Sodium, Nitrogen.

FIRE PRECAUTIONS AND PROTECTIVE MEASURES:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Exposure Controls/Personal Protection section.

Environmental Precautions:

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.

Methods and Material For Containment and Cleaning Up:

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil and dispose of in a manner consistent with applicable requirements. Place other contaminated materials in disposable containers and dispose of in a manner consistent with applicable requirements. Report spills to local authorities as appropriate or required.

Prevention Measures for Secondary Disasters: See above

SECTION 7 HANDLING AND STORAGE

Handling:

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling. Keep out of the reach of children.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Storage: Not applicable

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

Occupational Exposure Limits:

No applicable occupational exposure limits exist for this material or its components. Consult local authorities for appropriate values.

Biological Limit Values: No data available

Monitoring Methods: No data available

ENGINEERING CONTROLS:

Use general ventilation, local exhaust ventilation, or a combination of both.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin/Hand Protection: Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. **Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced.** Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Neoprene	0.61	120
Nitrile	0.8	120
Polyvinyl Chloride (PVC)	1.1	120
Viton Butyl	0.3	120

Respiratory Protection: Not required for identified conditions of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance

Color: Green (fluorescent)
Physical State: Liquid
Odor: Faint or Mild
Odor Threshold: No data available
pH: 7.8 - 8.5; 5%volume @ 20°C (solution in water)
Melting Point: Not Applicable
Freezing Point: -5°C (23°F) (Typical)
Initial Boiling Point: 100°C (212°F) (Estimated) **Boiling Range:** No data available
Flashpoint: Not Applicable
Flammability (solid, gas): No Data Available
Flammability (Explosive) Limits (% by volume in air):
Lower: No data available Upper: No data available
Vapor Pressure: No data available
Relative Vapor Density: No data available
Particle Characteristics: Not applicable
Density: 1.058 kg/l @ 20°C (68°F)
Solubility: Soluble in water.
Partition coefficient n-octanol/water (logarithmic value): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Kinematic Viscosity: No data available
Evaporation Rate: No data available

SECTION 10 STABILITY AND REACTIVITY

Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Polymerization: Hazardous polymerization will not occur.

Incompatibility With Other Materials: Not applicable

Hazardous Decomposition Products: None known (None expected)

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate: Not Determined

Skin Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Eye Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: This material may damage fertility or the unborn child. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: The material is not considered an aspiration hazard.

ADDITIONAL TOXICOLOGY INFORMATION:

2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms.
The product has not been tested. The statement has been derived from the properties of the individual components.

PERSISTENCE AND DEGRADABILITY

This material is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.
Partition coefficient n-octanol/water (logarithmic value): No data available

MOBILITY IN SOIL

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may

meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

Contaminated Packaging:

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

UN

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 **UN Number or ID Number:** Not applicable
- 14.2 **UN proper shipping name:** Not applicable
- 14.3 **Transport hazard class(es):** Not applicable
- 14.4 **Packing group:** Not applicable
- 14.5 **Environmental hazards:** Not applicable
- 14.6 **Special precautions for user:** Not applicable

ICAO / IATA

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 **UN Number or ID Number:** Not applicable
- 14.2 **UN proper shipping name:** Not applicable
- 14.3 **Transport hazard class(es):** Not applicable
- 14.4 **Packing group:** Not applicable
- 14.5 **Environmental hazards:** Not applicable
- 14.6 **Special precautions for user:** Not applicable

IMO / IMDG

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 **UN Number or ID Number:** Not applicable
- 14.2 **UN proper shipping name:** Not applicable
- 14.3 **Transport hazard class(es):** Not applicable
- 14.4 **Packing group:** Not applicable
- 14.5 **Environmental hazards:** Not applicable
- 14.6 **Special precautions for user:** Not applicable
- 14.7 **Maritime Transport in Bulk according to IMO Instruments:** Not applicable

SECTION 15 REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

- 01-1=IARC Group 1
- 01-2A=IARC Group 2A
- 01-2B=IARC Group 2B

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AIC (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), KECI (Korea), PICCS (Philippines), TSCA (United States).

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 02 - Emergency Overview information was modified.
SECTION 02 - Hazard Statements information was modified.
SECTION 02 - Health Classification information was modified.
SECTION 02 - Precautionary Statements information was modified.
SECTION 05 - Fire Fighters Protection Measures information was modified.
SECTION 05 - Special hazards arising from the substance or mixture information was modified.
SECTION 06 - Personal Precautions, Protective Equipment and Emergency Procedures information was modified.
SECTION 08 - Respiratory Protection information was added.
SECTION 08 - Respiratory Protection information was deleted.
SECTION 08 - Skin Protection information was modified.
SECTION 09 - Physical/Chemical Properties information was modified.
SECTION 11 - Reproductive Toxicity information was modified.
SECTION 14 - IMO Classification information was added.

Revision Date: February 26, 2025

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

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