


SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

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

- 1.1 Product identifier**
GHS Product Identifier
Chemical Name
Anti-rust lubricant
Kerosene/lubricating oil mixture with Dimethyl ether propellant
- Other names
CAS No. (Hazardous ingredients) 8008-20-6, 74869-22-0, 61790-48-5, 115-10-6
EINECS No. (Hazardous ingredients) 232-366-4, 278-012-2, 263-140-3, 204-065-8
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified use(s) Rust removal and lubricating agent
Uses advised against Do not use as a hand or body cleaner
- 1.3 Details of the supplier**
Company Identification
ALNAHLA TR LLC
Sharjah, UAE
- Telephone +971-6-5313324
Fax
E-Mail (competent person) *****
- 1.4 Emergency telephone number**
Emergency Phone No. *****

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)**
Extremely flammable gas H220
Liquefied pressure gas. H280
Acute toxicity (Ingestion) category 3 H301
Aspiration hazard category 1 H304
- 2.1.2 Directive 1999/45/EC**
F Highly flammable
TToxic
- 2.2 Label elements**
- 2.2.1 Label elements**
According to EC 1272/2008
GHS Product Identifier SB-40 anti-rust lubricant
- Hazard pictogram(s)

- Signal word(s) Danger
- Hazard statement(s)
H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.
H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.

Precautionary statement(s)

P102: Keep out of reach of children.
P210: Keep away from heat/sparks/open flames/hot surfaces.
– No smoking.
P251: Pressurized container: Do not pierce or burn, even after use.
P260: Do not breathe mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

80 % by mass of the contents are flammable

2.2.2 Label elements

According to Directive 1999/45/EC :

Pictogram



F

T

Risk Phrases

R12: Extremely flammable.
R25: Toxic if swallowed.
R65: Harmful: may cause lung damage if swallowed.

Safety Phrases

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Pressurized container: Do not pierce or burn, even after use.
80 % by mass of the contents are flammable

S2: Keep out of the reach of children.
S16: Keep away from sources of ignition - No smoking.
S23: Do not breathe vapour/spray.
S51: Use only in well-ventilated areas.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

2.3 Other hazards

2.4 Additional Information

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Classification according to EC 1272/2008

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Hazard statement(s)	
Kerosene Index Number : 649-404-00-4	40 – 50%	8008-20-6	232-366-4	Asp. Tox. 1	H304
Lubricating oil	16 – 20%	74869-22-0	278-012-2	Asp. Tox. 1	H304
Sulfonic acids, petroleum, barium salts	3 – 5%	61790-48-5	263-140-3	Acute Tox 3 Acute Tox 4	H301 H332
Dimethyl ether Index Number : 603-019-00-8	26 – 32 %	115-10-6	204-065-8	Flam. Gas 1 Press. Gas (*)	H220 H280

Classification according to 67/548/EEC

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	Classification and Risk Phrases	
Kerosene Index Number : 649-404-00-4	40 – 50%	8008-20-6	232-366-4	Xn	R65
Lubricating oil	16 – 20%	74869-22-0	278-012-2	Xn	R65
Sulfonic acids, petroleum, barium salts	3 – 5%	61790-48-5	263-140-3	Xn	R20-R25
Dimethyl ether Index Number : 603-019-00-8	26 – 32 %	115-10-6	204-065-8	F	R12

3.3 Additional Information

For full text of R/H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Obtain medical attention. Remove persons affected to fresh air. Keep patient warm and at rest. Apply artificial respiration if necessary (do not employ mouth-to-mouth method). If breathing is laboured, administer oxygen.

Skin Contact

Remove contaminated clothing immediately and wash affected skin with soap and plenty of water - lukewarm preferred. Wash contaminated clothing before reuse. Obtain medical attention if irritation or frostbite develops

Eye Contact

If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention if irritation, blurred vision or swelling continues

Ingestion

Obtain immediate medical attention. If swallowed, rinse mouth with water (only if the person is conscious). Make victim drink plenty of water. Do not induce vomiting. If vomiting occurs, lean patient forward as far as possible, or head-down, to maintain airway and prevent aspiration. Assume aspiration and transport immediately to hospital

4.2 Most important symptoms and effects, both acute and delayed

Irritation, coughing, headache, nausea, dizziness, vomiting,

4.3 Indication of the immediate medical attention and special treatment needed

Increased difficulty in breathing, headache, dizziness, drowsiness, vomiting, dry skin

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Extinguish preferably with alcohol-resistant foam, water fog, carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

Water jet

- | | | |
|-----|--|---|
| 5.2 | Special hazards arising from the substance or mixture | Highly flammable vapour (flash point below 23°C). Heating will cause pressure rise with risk of bursting and subsequent explosion. |
| 5.3 | Advice for fire-fighters | Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Prevent water running into sewers |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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|-----|--|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | Put on protective clothing. Avoid contact with skin, eyes or clothing. Remove or make safe all sources of ignition. Ensure adequate ventilation. Caution - spillages may be slippery. |
| 6.2 | Environmental precautions | Do not allow to enter drains, sewers or watercourses. |
| 6.3 | Methods and material for containment and cleaning up | Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a closed container for disposal. Disposal should be in accordance with local or national legislation. Remove contaminated soil.
Major spills : Alert fire brigade. Use water spray or fog to disperse / absorb vapour. If safe to do so, transfer damaged cans to container outdoors, away from ignition sources until pressure has completely dissipated. Remove undamaged cans to a safe storage area.
Collect spillage and seal in labeled drums for disposal See |
| 6.4 | Reference to other sections | Section: 8 (Exposure controls / PPE) & 13 (Disposal) |

7. SECTION 7: HANDLING AND STORAGE

- | | | |
|-----|---|---|
| 7.1 | Precautions for safe handling | Ensure adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour. Take precautionary measures against static discharge. Use only non-sparking tools. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Keep containers upright in a cool, well ventilated place .
Protect from heat and direct sunlight
Keep away from sources of ignition - No smoking.
May form explosive mixture with air particularly in enclosed spaces. Do not store in pits, depressions or basements where vapours may be trapped |
| | Storage Temperature | < 40 degC. |
| | Storage Life | Three years |
| | Incompatible materials | Strong oxidising agents, |
| | Other information | Follow any specific regulations regarding the quantities, storage and handling of highly flammable materials in the workplace |

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|-------|---|---|
| 8.1 | Control parameters | |
| 8.1.1 | Occupational Exposure Limits | WEL: Workplace Exposure Limit (UK HSE EH40) |
| | LTEL (8 hr TWA) | Dimethyl ether 400 ppm (766 mg/m3) |
| | STEL (15 minutes) | Dimethyl ether 500 ppm (958 mg/m3) |
| 8.2 | Exposure controls | |
| 8.2.1 | Appropriate engineering controls | Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limits are not exceeded. |
| 8.2.2 | Personal protection equipment | |

Eye/face protection



Safety spectacles/goggles. Minimum standard EN166.

Skin protection (Hand protection/ Other)



Neoprene or nitrile gloves. Minimum standard EN374-3.
Apron or other light protective clothing.

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A (EN136/140/141 or EN405) may be appropriate. The vapour is heavier than air; beware of pits and confined spaces.

Other

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and immediately after using the product. Wash contaminated clothing before reuse. Keep away from food and drink. Do not eat, drink or smoke when using this product.

8.2.3 Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties (Solution)

Appearance	Liquid,
Colour	Clear to Milky white
Odour	Slight. Fuel oil-like. Ether-like while spraying
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	< - 20 degC
Boiling point/boiling range (°C):	
Flash Point (°C) (Closed cup)	< 0 degC (Dimethyl ether)
Evaporation rate (Butyl acetate = 1)	Not applicable Test not scientifically justified
Explosive limit ranges	3.3 – 26 % (Dimethyl ether)
Vapour Pressure	Not applicable. Test not scientifically justified
Vapour Density (Air=1)	Not applicable. Test not scientifically justified
Density (g/ml)	< 1 at 20 degC
Solubility (Water)(20 degC)	Insoluble
Solubility (Other)	Soluble in organic solvents
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Temperature (°C)	220 – 250 degC (Estimated)
Decomposition Temperature (°C)	> 200 degC
Viscosity (mPa.s)	Water-like
Explosive properties	Not explosive.
Oxidising properties	Not oxidising

9.2 Other information

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Extremely flammable aerosol if punctured.
10.4 Conditions to avoid	Temperatures > 40 degC

10.5 Incompatible materials	Keep away from heat and sources of ignition.
10.6 Hazardous Decomposition Product(s)	Strong oxidising agents, Extremely flammable vapours

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

Ingestion	LD50 > 2000 mg/kg (Calculated)
Inhalation (4 hrs)	LD50 > 20 mg/L (Mist/dust/vapour)(Calculated)
Skin Contact	Does not contain any ingredients with LD50 (skin contact) < 2000 mg/k

Skin corrosion/irritation

Serious eye damage/irritation	Does not contain any ingredients that are irritant to eyes
Respiratory or skin sensitization	Does not contain any ingredients that are skin or respiratory sensitisers.

Mutagenicity

Carcinogenicity	There is no evidence of mutagenic potential. IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.
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Reproductive toxicity

STOT-single exposure	There is no evidence of reproductive toxicity Inhalation : Irritation of the respiratory tract. Coughing. Ingestion : Aspiration hazard. May be fatal if swallowed and enters airways. May cause irritation of the gastrointestinal tract. Headache, dizziness, nausea, vomiting
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STOT-repeated exposure (91 days)

NOAEL (Oral) > 50 mg/k/day (Kerosene)(rat)
NOAEL (Inhalation) > 24 mg/m3 (Kerosene)(rat)

11.2 Other information

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

(Fish) (96hrs)	LL50 : 2 - 5 mg/l (Kerosene)(Oncorhynchus mykiss)
(Daphnia magna) (48hrs)	EL50 : 1.4 mg/l (Kerosene)
(Algae) (72hrs)	EL50 : 1 - 3 mg/l (Kerosene)(Pseudokirchneriella sub.)

12.2 Persistence and degradability

Biodegradable in water

12.3 Bioaccumulative potential (96 hrs)

The product has low potential for bioaccumulation.

12.4 Mobility in soil

This product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents of damaged cans and emptied cans at an approved site.
Consult an accredited waste disposal contractor or the local authority for advice.

13.2 Additional Information

Containers must not be punctured or destroyed by burning, even when empty.

14. SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number	UN1950
Proper Shipping Name	AEROSOLS
Transport hazard class(es)	2.2
Packing group	III

14.2 Sea transport (IMDG)

UN number	UN1950
Proper Shipping Name	AEROSOLS
Transport hazard class(es)	2.2
Packing group	III
EmS:	F-D S-U

14.3 Air transport (ICAO/IATA)

UN number	UN1950
Proper Shipping Name	AEROSOLS
Transport hazard class(es)	2.2
Packing group	III

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use

None assigned

15.1.2 National regulations

None assigned

15.2 Chemical Safety Assessment

No Chemical Safety Assessment (CSA) has been carried out

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Sections #1 - #16.

Classification procedure

Calculation method

Abbreviations

F	Highly Flammable
IARC	International Agency for Research on Cancer
LTEL	Long Term Exposure Limit
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Association
STEL	Short Term Exposure Limit
STOT	Specific target organ (systemic) toxicity
T	Toxic
TWA	Time-weighted average
Xn	Harmful

References:

ECETOC Targetted Risk Assessment
 European Chemicals Agency
 European Regulations and Directives
 Published chemical directories
 Suppliers' safety and data sheets
 UK Health and Safety Executive
 US Environmental Protection Agency

Risk Phrases

R12: Extremely flammable.

R20: Harmful by inhalation.
R25: Toxic if swallowed.
R65: Harmful: may cause lung damage if swallowed.

Safety Phrases

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Pressurized container: Do not pierce or burn, even after use.

S2: Keep out of the reach of children.
S23: Do not breathe fumes.
S25: Avoid contact with eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39: Wear eye/face protection.
S51: Use only in well-ventilated areas.

Hazard statement(s)

H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.
H301: Toxic if swallowed.
H304: May be fatal if swallowed and enters airways.
H332: Harmful if inhaled.

Precautionary statement(s)

P102: Keep out of reach of children.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P243: Take precautionary measures against static discharge.
P251: Pressurized container: Do not pierce or burn, even after use.
P260: Do not breathe fumes.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse mouth.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P410+P403: Protect from sunlight. Store in a well-ventilated place.

Additional Information

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. **Zhongshan Datian Car Care Industry Inc. (China)** gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. **Zhongshan Datian Car Care Industry Inc. (China)** accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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Annex to the extended Safety Data Sheet (eSDS)

Exposure Scenario	
1. Short title of exposure scenario	
Application of aerosol and to surfaces	
2. Processes and activities covered by the exposure scenario	
Sectors of use [SU]:	SU3 Industrial and SU21 Consumer uses
Chemical product category [PC]:	PC14 Metal surface treatment products PC24 Lubricants, greases, release products
Process category [PROC]:	PROC 10 Roller application or brushing PROC 11 Non-industrial spraying
Article Categories [AC]:	Not applicable
Environmental release categories [ERC]:	ERC 8a Wide dispersive (Indoor) & ERC 8d Wide dispersive (Outdoor)
3. Operational conditions of use	
Control parameters	
Duration and frequency of use: Individual tasks involving limited potential exposure	
Maximum amount per time or activity:	
Consumer : Intermittent use, one hour,/ day Industrial : Four hours / day	
Other operational conditions of use: Well-ventilated area at room temperature	
Engineering control measures: local extraction required if levels of Dimethyl ether exceed occupational exposure limit.	
Other Protective Equipment: Eye protection, Neoprene or nitrile gloves. Respiratory protection required if Dimethyl ether exceeds occupational exposure limit (Industrial user)	
4. Physical form of substance / preparation / mixture or article Information on basic physical and chemical properties: Flammable liquid	
5. Product specification	
Kerosene	40 -50 % by weight
Lubricating oil	16 – 20 %
Sulfonic acids, petroleum	3 %
Barium salts	
Dimethyl ether propellant :	Maximum 32 %
6. Risk Management Measures	
Occupational exposure controls:	
Use in areas with good general ventilation	
Use explosion-proof local exhaust ventilation if general ventilation is inadequate Wear respiratory protection if local exhaust ventilation is not available	
Refer to Section 8 for advice on personal protection	
Environmental Exposure Controls:	
Industrial use – Use in area where spillages and rinse water can be contained	
Apply product accurately to avoid overspray. Clean up spillages promptly with absorbent material & dispose of safely	
Consumer use:	
Use outdoors or in area with good general ventilation	
Use no more than 120g product / day indoors. Follow manufacturer's instructions Avoid contact with eyes and face	
Do not eat, drink or smoke while using product. Wash hands thoroughly after use	
7. Waste management measures	
Description and information on safe handling of surplus or waste:	
Soak up residues and dispose of with solid waste according to local regulations Do not puncture or incinerate part-used cans	
8. Exposure assessment Human	
exposure prediction:	
Workers: Estimated exposures do not exceed limits with controls as recommended (ECETOC targeted risk assessment)	
Consumers: Estimated exposures do not exceed limits with controls as recommended (ECETOC targeted risk assessment)	
Environmental exposure prediction: Not available	
9. Other information	

Control parameters:

Method to check compliance: Sample and analyse air quality according to ISO 16017 or equivalent, annually, after equipment or process changes or whenever air quality is suspected to be unsatisfactory