



SDS REPORT

No. GSL20190226003

Date: Mar.06,2019

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Report no. : GSL20190226003
Applicant : Yantai Jiaqi Chemical Technology Limited Company
Address : The north four road of high and new industrial zone in Fushan District
Trade Name : YF3004-2 Thin Layer Anti-rust Oil
Composition/Ingredi : See Section 3 on the SDS
Summary : As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, 1272/2008, Regulation (EU) No 2015/830 and are provided per attached.



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

• 1.1 Product identifier

- **Trade name:** YF3004-2 Thin Layer Anti-rust Oil
- **Registration number:** Data not available

• 1.2 Relevant identified uses of the substance or mixture and uses advised against on

- **Application of the substance/ mixture:** Antirust agent for metal surface.

• 1.3 Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:**

Yantai Jiaqi Chemical Technology Limited Company

The north four road of high and new industrial zone in Fushan District

Tel: +086 535-6451053

Email: fstlyfhg@163.com

- **Only Representative/other EU contact point:** Information not available.

- **Further information obtainable from:** Yantai Jiaqi Chemical Technology Limited Company

• 1.4 Emergency telephone number

General in EU

112 (Available 24 hours a day)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008:



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways



GHS07 Exclamation mark

Skin Irrit. 2 H315 Causes skin irritation

Skin Sens. 1B H317 May cause an allergic skin reaction

Eye Irrit. 2 H319 Causes serious eye irritation

STOT SE 3 H336 May cause drowsiness or dizziness

• **Classification system:**

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

• 2.2 Label elements

- **Labeling according to Regulation (EC) No 1272/2008:** The product is labeled according to Regulation (EC) No 1272/2008.

• **Hazard pictograms:**



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GHS02 GHS08 GHS07

• **Signal word:** Danger

• **Hazard statements:**

- H226 Flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness

• **Precautionary statement:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish. Do not use water with full jet
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local regulation.

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

• **3.1 Chemical characterization:** Mixture

• **Description:**

Mixture of the substances listed below with nonhazardous additions; For the wording of the listed risk phrases refer to section 16.

• Component:		
CAS No.: 8008-20-6 EC No.: 232-366-4 Index No.: 649-404-00-4	Kerosine (petroleum) ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	73%
CAS No.: 74869-22-0 EC No.: 278-012-2	Lubricating oils	20%
CAS No.: 12001-85-3 EC No.: 234-409-2	Naphthenic acids, zinc salts ⚠ Skin Sens. 1B, H317; Eye Irrit. 2, H319; ⚠ Aquatic Chronic 2, H411	2.5%
CAS No.: 1338-43-8 EC No.: 215-665-4	Sorbitan oleate	2%
CAS No.: 29658-97-7 EC No.: 249-757-0	Dodecenylsuccinic acid ⚠ Eye Dam. 1, H318; Aquatic Chronic 3, H412	1%
CAS No.: 85005-40-9	Fatty acids, lanolin, magnesium salts ⚠ Eye Irrit. 2, H319	1%
CAS No.: 61790-48-5 EC No.: 263-140-3	Sulfonic acids, petroleum, barium salts ⚠ Skin Sens. 1B, H317	0.5%

Remark: The data from client shows this component contain less than 3% DMSO extract as measured by EN16143-2013 and shall not be classified as H350,



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SECTION 4: First aid measures

· 4.1 Description of first aid measures

General advice: If exposure it without protection, call for medical advice/attention.

After inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. Do NOT induce vomiting; Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

· 4.2 Most important symptoms and effects, both acute and delayed: May be fatal if swallowed and enters airways; Causes skin irritation; May cause an allergic skin reaction; Causes serious eye irritation; May cause drowsiness or dizziness.

· 4.3 Indication of any immediate medical attention and special treatment needed: Treat according to symptom, there is not known specific medicine.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use CO₂, powder, water spray or alcohol resistant foam to extinguish. Do not use water with full jet.

· 5.2 Special hazards arising from the substance or mixture: May produce aromatic hydrocarbon under fire.

· 5.3 Advice for firefighters

Protective equipment:

Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage timely if safe do it; Ensure adequate ventilation; Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area); Wear personal protective equipment; Avoid breathing vapor; Beware of accumulation of vapor in low areas or contained areas, where explosive concentrations may occur; Avoid contact eyes and skin;

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Ensure good ventilation; Dispose contaminated material as waste according to item 13.

· 6.4 Reference to other sections:

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Smoking, eating and drinking should be prohibited; Use only in well ventilated areas; Avoid all sources of ignition; Wear protective gloves/protective clothing/eye protection/face protection; Avoid breathing vapors; Use respiratory protective device against the effects of vapor; Avoid contact with eyes and skin.

• **Information about fire and explosion protection:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking; Keep container tightly closed; Ground/bond container and receiving equipment; Use explosion-proof electrical/ventilating/lighting equipment; Use only non-sparking tools; Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any non-compatibility

• **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.

• **Information about storage in one common storage facility:** Keep away from flammable substance.

• **Further information about storage conditions:** Store locked up.

7.3 Specific end use(s): Antirust agent for metal surface.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Country	Limit value - Eight hours	Limit value - Short term
8008-20-6 Kerosine (petroleum) (73%)		
Belgium	200mg/m ³	-
Ireland	100mg/m ³	-

DNELs:

DNEL type	DNEL worker value	DNEL consumer value
12001-85-3 Naphthenic acids, zinc salts		
Systemic effects	Long-term, inhalation exposure	1.18 mg/m ³
	Long-term, dermal exposure	3.3 mg/kg bw/day
	Long-term, oral exposure	-
61790-48-5 Sulfonic acids, petroleum, barium salts		
Systemic effects	Long-term, inhalation exposure	11.75 mg/m ³
	Long-term, dermal exposure	3.33 mg/kg bw/day
	Long-term, oral exposure	-

PNECs:

PNEC type	Value
12001-85-3 Naphthenic acids, zinc salts	
Freshwater	4 µg/L
Intermittent releases (freshwater)	40 µg/L
Marine water	400 ng/L
Intermittent releases (marine water)	40 µg/L
Sewage treatment plant (STP)	689.7 µg/L
Sediment (freshwater)	15.1 - 19438.4 µg/kg sediment dw
Sediment (marine water)	1.51 - 1943.84 µg/kg sediment dw
61790-48-5 Sulfonic acids, petroleum, barium salts	
Freshwater	1 mg/L



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Intermittent releases (freshwater)	10 mg/L
Marine water	1 mg/L
Sewage treatment plant (STP)	1 g/L

• **Additional information:** The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; Take off contaminated clothing and wash it before reuse; See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Respiration protection:** Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Protection of hands:**



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Eye protection:**



Safety glasses

Protective goggles with side-shields.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• **Appearance:**

Form	Viscous liquid
Color	Light yellow, transparent.
Odor	Odorless
Odor threshold	Not applicable
• pH-value	Not applicable
• Change in condition	
Melting point/melting range	Not determined.
Boiling point and boiling range	Not determined.
• Freezing point	Not determined.
• Flash point	30°C-35°C (closed cup)
• Flammability (solid, gas)	Not applicable
• Decomposition temperature	Not determined.
• Self-ignition	Not determined.
• Danger of explosion	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
• Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
• Oxidizing properties	Not oxidability.
• Vapor pressure	Not determined.



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• Density	<i>Not determined.</i>
• Relative density	<i>Not determined.</i>
• Vapor density	<i>Not determined.</i>
• Evaporation rate	<i>Not determined.</i>
• Solubility in/Miscibility with	
Water	<i>Not determined.</i>
• Partition coefficient (n-octanol/water)	<i>Not determined.</i>
• Viscosity	
Dynamic	<i>Not determined.</i>
Kinematic	<i>< 20.5 m²/s at 40°C</i>
• 9.2 Other information	<i>Data not available</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** *No decomposition if used according to specification.*
- **10.2 Chemical stability:** *Stable under recommended storage conditions.*
- **10.3 Possibility of hazardous reactions:** *No further relevant information available.*
- **10.4 Conditions to avoid:** *Heat/sparks/open flames/hot surfaces.*
- **10.5 Incompatible materials:** *Strong acid, strong oxidizing agent and flammable substance.*
- **10.6 Hazardous decomposition products:** *No further relevant information available.*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** *Based on available data, the classification criteria are not met.*
- **LD/LC50 values relevant for classification:** *No animal test has been done for this product.*

8008-20-6 Kerosine (petroleum)		
Rabbit	LD50-oral	2835mg/kg
	LD50-skin	>2000mg/kg
Rat	LD50-oral	>5000mg/kg
	LC50-inhalation	>5000mg/m ³ /4H
74869-22-0 Lubricating oils		
Rat	LD50-oral	>10000mg/kg
Mouse	LD50-oral	>5000mg/kg
12001-85-3 Naphthenic acids, zinc salts		
Rat	LD50-oral	2800mg/kg
Mouse	LD50-oral	4920mg/kg

Remark: The above data is from literature.

- **Skin corrosion/irritation:** *Causes skin irritation.*
- **Serious eyes damage/ irritation:** *Causes serious eye irritation.*
- **Respiratory or skin sensitization:** *May cause an allergic skin reaction.*
- **Germ cell mutagenicity:** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity:** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity:** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure:** *May cause drowsiness or dizziness.*
- **STOT-repeated exposure:** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard:** *May be fatal if swallowed and enters airways.*



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SECTION 12: Ecological information

• 12.1 Toxicity

• **Aquatic toxicity:** Not hazardous to the aquatic environment.

8008-20-6 Kerosine (petroleum)	
Short-term toxicity to fish	LL50 (4 days) 2 - 5 mg/L
Short-term toxicity to aquatic invertebrates	EL50 (48 h) 1.4 mg/L
Long-term toxicity to aquatic invertebrates	EL50 (21 days) 810 - 890 µg/L
Toxicity to aquatic algae and cyanobacteria	EL50 (72 h) 1 - 3 mg/L
74869-22-0 Lubricating oils	
Short-term toxicity to fish	LL50 (4 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	LL50 (4 days) 10 g/L
12001-85-3 Naphthenic acids, zinc salts	
Short-term toxicity to fish	LL50 (4 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	EL50 (48 h) 35 mg/L
Toxicity to aquatic algae and cyanobacteria	EL50 (72 h) 1.4 - 4 mg/L NOELR (72 h) 320 - 1 000 µg/L
Toxicity to microorganisms	EC50 (3 h) 5.2 mg/L IC50 (4 h) 350 µg/L NOEC (4 h) 100 - 700 µg/L
61790-48-5 Sulfonic acids, petroleum, barium salts	
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 1 g/L NOEC (4 days) 1 g/L
Toxicity to microorganisms	EC50 (3 h) 10 g/L

• 12.2 Persistence and degradability: Readily biodegradable.

61790-48-5	Sulfonic acids, petroleum, barium salts	Under test conditions no biodegradation observed
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• 12.3 Bio-accumulative potential: Low bio-accumulation.

12001-85-3	Naphthenic acids, zinc salts	Log Pow= 0.8 - 11.15 at 20 °C and pH 7
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• 12.4 Mobility in soil:

12001-85-3	Naphthenic acids, zinc salts	log Koc= 1.741 - 9.677 at 20 °C
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• 12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

• **12.6 Other adverse effects:** No further relevant information available.

• 12.7 Additional ecological information

• **General notes:** Water hazard class 1(German Regulation) (self-assessment): Slightly hazardous for water.

Do not allow large quantities of the product to reach ground water.

SECTION 13: Disposal consideration

• 13.1 Waste treatment methods

• **Recommendation:** Must not be disposed together with household garbage.

• 13.2 Un-cleaned packaging



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· **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

· 14.1 UN-Number ADR, RID, ADN IMDG, IATA	UN 1993
· 14.2 UN proper shipping name ADR, RID, ADN IMDG, IATA	FLAMMABLE LIQUID, N.O.S.
· 14.3 Transport hazard class (es) ADR, RID, ADN IMDG, IATA Class Label	 3 Flammable liquids. 3
· 14.4 Packing group ADR, RID, ADN IMDG, IATA	III
· 14.5 Marine pollution	Yes
· 14.6 Special precautions for user · Danger code (Kemler) · EMS number	Warning: Flammable liquids 30 F-E,S-E
· 14.7 UN "Model Regulation"	UN 1993, FLAMMABLE LIQUID, N.O.S., 3, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- MAK (German Maximum Workplace Concentration): None of the ingredients is listed.
- Directive 2012/18/EU
- Named dangerous substances-ANNEX I: None of the ingredients is listed.
- Seveso category: P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements: 5000 ton(net)
- Qualifying quantity (tonnes) for the application of upper-tier requirements: 50000 ton(net)
- National regulations.
- Water hazard class: Water hazard class 2(German Regulation) (self-assessment): Hazardous for water.
- Other regulations, limitations and prohibitive regulations
- SVHC Candidate list of REACH Regulation Annex XIV Authorization: None of the ingredients is listed.
- REACH Regulation Annex XVII Restriction: None of the ingredients is listed.
- REACH Regulation Annex XIV Authorization List: None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases:

H226 Flammable liquid and vapour



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This report is only for reference of scientific research and education, or internal quality control.

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If you happen to have any complaints, please do it by sending email to info@greatesting.com and referring to this report number.
10/F, 1# Building, No.2899 South Lianhua Road, Minhang District, Shanghai, China
上海市闵行区莲花南路 2899 号莲谷科技园 1 号楼 10 层

t (86-21)64788791
f (86-21)64788792

[Http://www.greatesting.com](http://www.greatesting.com)
info@greatesting.com



SDS REPORT

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H304 May be fatal if swallowed and enters airways
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H318 Causes serious eye damage
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness
 H411 Toxic to aquatic life with long lasting effects
 H412 Harmful to aquatic life with long lasting effects

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
PBT: Persistent, Bio accumulative and Toxic
SVHC: Substance of Very High Concern
LD50: Lethal dose, 50 percent
LC50: Lethal concentration, 50 percent
NOEC: No observed effect concentration
EC50: Concentration of maximal effect, 50 percent
LL50: Lethal loading rate, 50 percent
EL50: Effective loading rate, 50 percent
NOELR: No Observable Effect Loading Rate
IC50: Half maximal inhibitory concentration
Flam. Liq. 3: Flammable liquids, hazard category 3
Asp. Tox. 1: Aspiration toxicity, hazard category 1
Skin Irrit. 2: Skin corrosion/irritation, hazard category 2
Skin Sens. 1B: Respiratory or skin sensitisation, hazard category 1B
Eye Dam. 1: Eye damage/irritation, hazard category 1
Eye Irrit. 2: Eye damage/irritation, hazard category 2
STOT SE 3: Specific target organ toxicity after single exposure, hazard category 3
Aquatic Chronic 2: Hazardous to the aquatic environment- chronic toxic, hazard category 2
Aquatic Chronic 3: Hazardous to the aquatic environment- chronic toxic, hazard category 3

End of safety data sheet



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