MATERIAL SAFETY DATA SHEET

SN α 0W-20

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : SN α 0W-20
Company Name : ALPHA'S CO., LTD.
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2. HAZARDS IDENTIFICATION

Hazards Category

Acute Toxicity (Oral) : Category 4
Respiratory/Skin Sensitizer : Category 1
Reproductive Toxicity : Category 2
Hazardous to The Aquatic Environment (Acute) : Category 3
Hazardous to The Aquatic Environment (Chronic) : Category 3

The one without the description cannot be classified.

Allocation of Label Elements

Pictogram

Exclamation mark
Health Hazard

Signal Word

Warning

Hazard Statement

Harmful if swallowed
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients and Components

Component Name	CAS Number	Wt%
Mineral Oil	Trade Secret	80 - 90
Lubricating Additives	Trade Secret	10 - 20
Diphenylamine	122-39-4	< 1
Bis (2-ethylhexyl) Adipate	103-23-1	< 1

4. FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a physician if you feel unwell.

Skin

Wash with plenty of soap and water.
Call a physician if you feel unwell.

Eye

Immediately flush eyes with plenty of water for at least 15 minutes.
Call a physician.

Ingestion

Rise mouth. Do not induce vomiting.
Call a physician

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Dry chemical, carbon dioxide (CO2), and foam

Specific Fire Fighting

On small fires, use carbon dioxide (CO2) or dry chemical.
On large fires, use dry chemical or foam.
DO NOT approach containers suspected to be hot.
May emit poisonous fumes or corrosive fumes.

Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ventilate well indoor until disposal is finished.
Wear protective equipment in case of operation.

Environmental Precautions

Avoid release to the environment.

Methods for Cleaning up

Remove potential ignition source in vicinity as soon as possible.
Prepare extinguishing agent.
Prevent leakage be enclosing with nonflammables and collect into empty container by scoop or the like.

7. HANDLING AND STORAGE

Handling

DO NOT breath vapor or mist.
DO NOT get in eyes, on skin, or on clothing.
Wear protective equipment when risk of exposure occurs.
Use in a well ventilated area.
Use spark-proof tools and explosion-proof equipment.
Keep away from heat, spark and flames.
Fire prohibited strictly.
After handling, wash well hands and face and rinse your mouth.
DO NOT eat, drink or smoke during work.
Avoid physical damage to containers.
Keep containers securely sealed when not in use.

Storage

Fire prohibited strictly.
Keep away from sources of ignition.
Store in a cool, dry, well-ventilated area away from incompatible substances.
Separate from oxidizing materials.
Store in a tightly closed container.

8. EXPOSURE / PERSONAL PROTECTION

Engineering Controls

Facilities storing or utilizing this materials should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Ventilation fans and other electrical device must be non-sparking an have an explosion-proof design.

Exposure Limit Values

Chemical Name	ACGIH
Mineral Oil	TWA 5 mg/m3 (mist)
Lubricating Additives	Not Established
Diphenylamine	TWA 10 mg/m3
Bis (2-ethylhexyl) Adipate	Not Established

Personal Protective Equipment
Respiratory Protection
In case of insufficient ventilation, wear suitable respiratory equipment.
Skin Protection
Wear chemical protective gloves and protective clothing to prevent skin exposure.
Eye Protection
Wear chemical worker's goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Color	:	Yellow to amber
Odor	:	Oil odor
pH	:	Not available
Boiling Point (℃)	:	Not available
Melting Point (℃)	:	Not available
Flash Point (℃)	:	210
Auto-ignition Temperature (℃)	:	Not available
Flammability or Explosive Limits		
Lower	:	Not available
Upper	:	Not available
Vapor Pressure (Kpa)	:	Not available
Vapor Density	:	Not available
Relative Density (g/cm3)	:	0.85
Solubility	:	Insoluble in water
Partition Coefficient: n-octanol/water	:	Not available
Decomposition Temperature (℃)	:	Not available

10. STABILITY AND REACTIVITY

Stability
Stable under normal temperatures and pressures.
Conditions to Avoid
Heat, flames, ignition sources and incompatibles.
Incompatible Materials
Strong oxidizing agents, acids and alkalis.
Hazardous Decomposition Products
Carbon monoxide, carbon dioxide and other oxidized substances.

11. TOXICOLOGICAL INFORMATION

Chemical Name	Acute toxicity					Skin corrosion/ irritation	Serious eye damage/ irritation
	Oral	Dermal	inhalation:				
			gas	vapor	dust, mist		
Mineral Oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lubricating Additives	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Diphenylamine	Category 4	Classification not possible	Not applicable	Classification not possible	Classification not possible	Classification not possible	Category 1
Bis(2-ethylhexyl) Adipate	Not classified	Not classified	Not classified	Classification not possible	Classification not possible	Category 3	Classification not possible

Chemical Name	Respiratory/ Skin sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs/systemic toxicity following single exposure	Specific target organs/systemic toxicity following repeated exposure	Aspiration hazard
Mineral Oil	Respiratory sensitizer : Classification not possible Skin sensitizer : Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Lubricating Additives	Respiratory sensitizer : Classification not possible Skin sensitizer : Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Diphenylamine	Respiratory sensitizer : Classification not possible Skin sensitizer : Category 1	Classification not possible	Not classified	Category 2	Category 1 (blood system, urinary organs)	Category 1 (cardiovascular system, blood, bladder) Category 2 (kidneys)	Classification not possible
Bis(2-ethylhexyl) Adipate	Respiratory sensitizer : Classification not possible Skin sensitizer : Classification not possible	Not classified	Not classified	Category 2	Classification not possible	Classification not possible	Classification not possible

12. ECOLOGICAL INFORMATION

Chemical Name	Hazardous to the aquatic environment	
	Acute	Chronic
Mineral Oil	Classification not possible	Classification not possible
Lubricating Additives	Classification not possible	Classification not possible
Diphenylamine	Category 1	Category 1
Bis(2-ethylhexyl) Adipate	Not classified	Not classified

13. DISPOSAL CONSIDERATIONS

Dispose of contents / container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

UN Class

Not determined.

UN No.

Not determined.

Packing Group

Not determined.

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION

References

JIS Z 7259

GHS data-base (NITE)

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