

Material Safety Data Sheet

Trade Name	SHL FOUNTCUT 2G
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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: SHL FOUNTCUT 2G
Product Description: Petroleum hydrocarbon & additives
Application: Metalworking Fluid

Manufacturer's Name & Address

SHL ASEAN CO., LTD.

Address: My Xuan B1-Connac Industrial Zone, Phu My Ward, Ho Chi Minh City, Vietnam

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Supplier SHL ASEAN CO., LTD.

Department Technical Institute

2. HAZARD IDENTIFICATION

HAZARD CLASSIFICATION

Aspiration Hazard Category 1

Eye Irritation Category 2A

LABEL ELEMENTS

GHS Pictogram :



Signal Words : Danger

Hazard statements

May be fatal if swallowed and enters airways.

Causes serious eye irritation.

Precautionary statements

Prevention

Response

P264 Wash thoroughly after handling.

P280 Wear protective gloves and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

P337+P313 If eye irritation persists: Get medical advice.

P331: Do not vomit.

P301+P310: If swallowed, seek medical advice immediately (show the label where possible).

Storage

P405: Seal and store.

Disposal

P501: Dispose of contents/container according to the current rules and regulations.

NFPA Index

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT : Public health :1, Fire : 1, Reaction : 0

Diethylene Glycol Monobutyl Ether : Public health :2, Fire : 2, Reaction : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name	Synonyms	CAS No.	Concentration (%)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	Distillate fuel oils, light	64742-47-8	90 - 95
Diethylene Glycol Monobutyl Ether	DB Glycol Ether	112-34-5	5 - 10

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact

Flush thoroughly with water.

If irritation occurs, get medical assistance.

Remove contact lenses, if present and easy to do. Continue rinsing.

If the eye is bloodshot and the congestion maintains continuously, receive medical treatment.

Skin Contact

Wash contact areas with soap and water.

Take off contaminated clothing and wash before reuse.

If the irritation maintains on the skin continuously, receive medical treatment.

Inhalation

Remove from further exposure.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If necessary, gastrolavage should be considered.

If necessary, get medical attention.

Ingestion

Immediately, receive medical treatment.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

Treat appropriately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Dry chemical, carbon dioxide, water fog, normal foam

Unsuitable Extinguishing Media : Straight streams of water

HAZARDOUS SUBSTANCE CREATED DURING BURNING

Smoke, Fume, Incomplete combustion products, Oxides of carbon

Extinguishing Method and Extinguisher

Evacuate area.

Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

Shut off all sources of fuel if possible, and use water to cool fire-exposed materials.

Use water to cool fire-exposed tanks, containers, and structures.

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus(SCBA).

Use water spray to cool fire exposed surfaces and to protect personnel.

Use foam if exposed to heat or flame.

FIRE FIGHTING INSTRUCTIONS

Flash Point [Method]: 80 °C (ASTM D93, CLOSED CUP)

Upper/Lower Flammable Limits (Approximate volume % in air): No data

Autoignition Temperature: No data

6. ACCIDENT RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Protective Measures

Avoid contact with spilled material.

Change contaminated clothes to new one.

Wear air respirator or ventilate the air in an airtight room.

Shut off source of exposure or remove source of fire.

In case of inadequate ventilation wear respiratory protection.

Avoid contact with spilled material.

ENVIRONMENTAL PRECAUTIONS

Prevent water pollution.

Do not directly expose the substance to nature.

Dispose the substance as wastewater to prevent water pollution.

If the area is polluted, eliminate the substance by using absorbent.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Use sand or nonflammable absorber.

Collect exposed materials in a proper container to dispose them.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid breathing vapours or contact with material.

Prevent small spills and leakage to avoid slip hazard.

Only use in well ventilated areas. Wash thoroughly after handling.

Empty containers may retain product residue including flammable

Thus, do not work near empty containers.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Loading/Unloading Temperature: Ambient

Transport Temperature: Ambient

Transport Pressure: Ambient

CONDITIONS FOR SAFE STORAGE

Keep container closed. Handle containers with care.

Store the substance in a cool and well-ventilated area.

Seal the storage container up and do not have a physical impact on the container.

Keep containers closed when not in use.

Do not use compressed air for filling, discharging or handling.

Do not cut, drill, grind, weld or perform similar operations on or near containers.

Store the substance according to the current rules and regulations.

Storage Temperature: Ambient

Storage Pressure: Ambient

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

TWA 0.8mg/m³ (Metalworking fluid. Mixed solvent extract)

ENGINEERING CONTROLS

Adequate ventilation should be provided so that exposure limits are not exceeded.

Adequate ventilation in accordance with good engineering practice must be provided to keep any oil mist concentration below the PEL.

Check if the exposure is proper within the exposure criteria.

PERSONAL PROTECTION

Respirator is needed if this liquid is frequently used or excessively exposed.

If product is handled in such a way as to create a vapor or mist, approved respirator should be used to prevent overexposure. Use either a full-face, atmospheresupplying respirator or an air-purifying respirator for organic vapors.

Respirator shall be certified by Korea Occupational Safety & Health Agency.

Eye Protection

Wear chemical goggles to prevent eye contact from scattering materials or harmful liquids.

Install spray washing system for eyes near the work field.

Hand Protection

Wear chemical-resistant gloves.

Body Protection

Wear chemical-resistant protective clothing.

9. PHYSICAL AND CHEMICAL INFORMATION

Appearance	Colorless clear
Odor	Weak petroleum odor
pH	N/A
Melting Point	< -20.0 °C
Boiling point	No data
Flash Point	80 °C (ASTM D93, CLOSED CUP)
Oxidation	Stable in normal temperature and pressure
Flammability limits in air	No data
Explosion	Stable in normal temperature and pressure
Vapor Pressure	< 0.1 mmHg @ 20 °C
Solubility In Water	Insoluble in water
Vapor Density	> 1 (Air=1)
Specific Gravity	0.812 at 15/4°C
Distribution Coefficient	No data
Autoignition Temp.	No data
Decomposition Temp.	No data available
Viscosity	2.14 cSt at 40°C
Molecular weight	No data

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under normal conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS

Not expected.

CONDITIONS & MATERIALS TO AVOID

Avoid heat, sparks, open flames and other ignition sources.

Strong oxidising agents.

If exposed to heat, containers may rupture or explode

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition product. Toxic carbon compounds may be included (e.g. CO).

11. TOXICOLOGICAL INFORMATION

URGENT RISK & HARMFULNESS INFORMATION

Inhalation

Inhalation of vapors may cause irritation of the respiratory tract and the eyes, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.

Eye Contact

May cause irritation.

Skin Contact

May cause slight irritation. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Ingestion

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 : >5000mg/kg (rat)
Acute Dermal Toxicity	LD50 : >2000mg/kg (rabbit)
Acute Inhalation Toxicity	Mist LC50 > 5.28 mg/ℓ 4 hr Rat
Dermal Irritability	Not irritating
Eye Irritability	May cause slight irritation to eyes.
Subacute Toxicity	No data
Repeated Dose Toxicity	No data
Mutagenicity	No data
Specific target organ toxicity (single exposure):	Clinical signs: nasal discharge, ocular discharge, abnormal stools, lethargy, stained
Specific target organ toxicity (repeated exposure):	There were no effects on clinical signs or mortality in either sex. Haematology, clinical chemistry, and urinalysis were measured only in females without any effects noted. (Rat, GLP)
Carcinogenicity	No data
Aspiration hazard	The record of human aspiration injury from such marketed products as gasoline. (Human)
Additional Advice	Numerical measures of toxicity (Estimated acute toxicity, etc.) Not available

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY AND ECOTOXICITY

Chronic and Aquatic Toxicity

Fish : LC50 2.2 mg/ℓ 96 hr *Oncorhynchus mykiss*

Shelfish : No data

Algae : No data

MOBILITY IN SOIL : No data

BIODEGRADABILITY : No data

POSSIBILITY OF BIOACCUMULATION : BCF= 130-159

13. DISPOSAL CONSIDERATIONS

REGULATION OF WASTE MANAGEMENT ACT

Classified as specified wastes.

WASTE DISPOSAL METHODS

Dispose in a legal self-disposal system or through waste disposal company.

CAUTION FOR DISPOSAL

Follow the detailed criteria of Wastes Control Act.

Empty Container Warning

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

14. TRANSPORT INFORMATION

Classification and Regulation According to Ship Transportation and Storage Rule of

Hazardous Material of Ship Safety Act

Not Regulated

Caution during Transport

No data

Marine pollutant : No

Classification and Regulation According to Rule of Foreign Transportation

Not Regulated for transport according to UN, IMDG, ADR/RID, IATA/ICAO codes

15. REGULATORY INFORMATION

Regulation by the Industrial Safety and Health Act

MSDS subject to Article 41 of the Industrial Safety and Health Act.

Chemical Substances Control Act

N/A

Regulation under dangerous goods safety management law

Category 4 3rd petroleum

Regulation by waste management law

Designated waste

High-Pressure Gas Safety Control Act N/A

Wastes Control Act Classified as specified wastes.

Act on Safety Management of Dangerous Goods

The second class of petroleum of the fourth class of hazardous substance in Korea

Regulation According to Foreign Laws

USA : CERCLA 103(40CFR302.4) : N/A

OSHA(29CFR1910.119) : N/A

EPCRA 302(40CFR355.30) :N/A

EPCRA 304(40CFR355.40) :N/A

EPCRA 313(40CFR372.65) : N/A

Rotterdam Convention material : N/A

Stockholm Convention substance : N/A

Montreal Protocol substance : N/A

16. OTHER INFORMATION

Source

Material's data of our laboratories, Korea Occupational Safety & Health Agency and raw material supplier

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Other References

The information and recommendations contained herein are, to the best of our's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet. If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.