


SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE SUPPLIER

(a) Product Identifier	LSC GREASE REMOVER (DEGREASER)
(b) Other means of identification	LSC Degreaser Packaging: PVC Container : 3 litre / 20 litre.
(c) Recommended use and restrictions on use	Cleaner remover of fats, oil and cooking grease.
(d) Details of the principal supplier	LSC Chemical & Paints Sdn. Bhd, No. 39, Jalan Bestari 2/KU7, Kawasan Perindustrian Kapar Bestari, 42200 Kapar, Selangor, Selangor Darul Ehsan, Malaysia. Tel.: + 603-3292 8816
(e) Email	lsc_cp@hotmail.com

2. HAZARD IDENTIFICATION

(a) Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200	
<ul style="list-style-type: none"> • Skin Corrosion/Irritation - Category 2 • Serious Eye Damage/Eye Irritation - Category 2 • Skin Sensitization – Category 1 • Specific Target Organ Toxicity – Single Exposure – Category 3 (respiratory tract) 	
(b) Label elements	
Hazard Pictogram	 <p style="text-align: right;">Signal word : Danger</p>
Hazard statements	May causes skin and serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.
Precautionary statements - prevention	Wash skin thoroughly after handling. Wear protective gloves and eye/face protection. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area.
Precautionary statements - response	<p>IF IN EYES: 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.</p> <p>IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.</p>

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	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Precautionary statements - storage	Store in a well-ventilated place. Keep cool.
Precautionary statements - disposal	Dispose of contents/container to in accordance with local/international regulation
(c) Others hazards	Not known

3. COMPOSITION AND INFORMATION OF THE INGREDIENTS

(a) Substance	Mixtures	
(b) Mixtures		
Chemical name	CAS number	Concentration (%)
Sodium Carbonate	497-19-8	5 - 10
Tetrasodium EDTA	64-02-8	1 - 5
Sodium hydroxide	1310-73-2	0.1 – 1.0

Product AT USE DILUTION		
Chemical name	CAS number	Concentration (%)
Sodium Carbonate	497-19-8	5 - 10
Tetrasodium EDTA	64-02-8	1 - 5

* According to the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.

4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	
: See Section 11 for more detailed information on health effects and symptoms.	

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5. FIRE-FIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media and the surrounding environment. : Use extinguishing measures that are appropriate to local circumstances
Unsuitable extinguishing media : None known.
Specific hazards during fire fighting : Not flammable or combustible.
Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides.
Special protective equipment for fire-fighters : Use personal protective equipment.
Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, protective equipment and emergency procedures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.
(b) Environmental precautions	Avoid discharge into lakes, ponds, streams, or public waters.
(c) Methods and material for containment and cleaning.	Confine and absorb with sand, earth or other non-combustible material; place material into approved containers for disposal

7. HANDLING AND STORAGE

(a) Precautions for safe handling	Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.
(b) Conditions for safe storage, including any incompatibilities.	CAUTION - FLAMMABLE - keeps away from all sources of ignition. "Empty" containers may contain residue, which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well-ventilated work areas to minimize exposure when handling this material.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m ³	ACGIH
		Ceiling	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z1

Product AS SOLD

Engineering measures	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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Personal protective equipment

Eye protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin protection	No special protective equipment required.
Respiratory protection	No personal respiratory protective equipment normally required.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

Product AT USE DILUTION

Engineering measures	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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Personal protective equipment

Eye protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin protection	No special protective equipment required.
Respiratory protection	No personal respiratory protective equipment normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

(a) Physical state	Liquid
(b) Colour	Clear
(c) Odour	Solvent-like, mild
(d) Odour threshold	Not established
(e) pH	Not applicable
(f) Melting point	Not applicable
(g) Freezing point	Not applicable
(h) Initial boiling point and boiling range	Not applicable
(i) Flash point	Closed cup: 25°C
(j) Evaporation rate	Not applicable
(k) Flammability (solid, gas)	Highly flammable in the presence of open flames, sparks and static discharge and heat.
(l) Upper flammability or explosive limits	7 vol %
(m) Lower flammability or explosive limits	0.8 vol %
(n) Vapour pressure	0.01 kPa
(o) Vapour density	Not applicable
(p) Relative density	0.94 – 1.00
(q) Solubility(ies)	Not soluble in water
(r) Partition coefficient : n-octanol/water	Not applicable
(s) Auto-ignition temperature	Lowest known value: 333°C (631.4°F)
(t) Decomposition temperature	Not applicable
(u) Viscosity	Not applicable

10. STABILITY AND REACTIVITY

(a) Reactivity	Heating may cause a fire.
(b) Chemical stability	Product is stable under normal operating and storage conditions.

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(c) Possibility of hazardous reactions	Not known
(d) Condition to avoid	Extreme temperatures, open flames, spark.
(e) Incompatible materials	Water, strong oxidizers, strong acids, strong alkalis.
(f) Hazardous decomposition products	Decomposition will not occur if handle and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

11. TOXICOLOGY INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Product AT USE DILUTION

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Product AS SOLD Product

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available

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Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product AS SOLD	Product AT USE DILUTION
Harmful to aquatic life.	This product has no known ecotoxicological effects.

Product AS SOLD Product

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

Components	
Toxicity to fish	: Sodium Carbonate 96 h LC50 Lepomis macrochirus (Bluegill sunfish): 300 mg/l
	: Tetrasodium EDTA 96 h LC50 Fish: 121 mg/l
Toxicity to daphnia and other aquatic invertebrates	: Sodium Carbonate 48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l
	: Tetrasodium EDTA 48 h EC50 Daphnia magna (Water flea): 140 mg/l
	: Sodium hydroxide 48 h EC50: 40 mg/l

Persistence and degradability

Product AT USE DILUTION

Poorly biodegradable

Bio accumulative potential	: No data available
Mobility in soil	: No data available
Other adverse effects	: No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment method	
Specify the appropriate methods of disposal	The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes

14. TRANSPORT INFORMATION

(a) UN number	UN1263
(b) UN proper shipping name	Paint
(c) Transport Hazard Class(es)	UN Class 3 FLAMMABLE LIQUID
(d) Packing group, if applicable	III
(e) Environmental hazards (e.g. marine pollutant)	No
(f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	Not applicable
(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection either within or outside their premises.	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the chemical			
This product is a "Hazardous Chemical" as it uses the ingredient classified as hazardous under the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.			
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
HMIS III rating			
Health: 1	Flammability: 3	Physical hazard: 1	PPE: Safety glasses, gloves
Other label information	Not available		
Legislation and regulations	None of the component are listed under EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances of very high concern.		

16. OTHER INFORMATION

(a) SDS number	M-0037
(b) Date of preparation of the SDS;	27/08/2013
(c) Date of revision of the SDS	09/02/2023 Version 5
(d) Date of previous issue	13/02/2024
(e) Key literature references and sources for data used to compile the SDS	MSDS's and SDS for individual raw material, ICOP.
(f) Key/legend to the abbreviations and acronyms used in the SDS	
ATE = Acute Toxicity Estimate	BCF = Bio-concentration Factor
CAS number = Chemical Abstract Service registry number	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association	IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods	LogP _{ow} = logarithm of the octanol/water partition coefficient
UN = United Nations	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
F - Highly flammable	
T - Toxic	

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Xn - Harmful	PPM - parts per million (mg/kg)
Xi - Irritant	STEL - short-term exposure limits
TWA – time-weighted average	PEL - Permissible exposure limit
Niosh - National Institute for Occupational Safety and Health	ACGIH - American Conference of Governmental Industrial Hygienists
LD50 is defined as the lethal dose at which 50% of the population if killed in a given period of time;	REACH - Registration, Evaluation, Authorisation and restriction of Chemicals of the EU
LC50 is the lethal concentration required to kill 50% of the population.	29 CFR 1910.1200 – Hazard communication of the Occupational Safety and Health Standard
CFR - Code of Federal Regulations	EU – European Union
Flam. Liq. 3 - Flammable liquids category 3 Acute Tox. 4 (inh) - Acute toxicity category 4 inhalation Acute Tox. 4 (dermal) - Acute toxicity category 4 Skin Irrit. 2 - Skin corrosion or irritation category 2 STOT SE 3 - Specific target organ toxicity – single exposure category 3	H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness H332 Harmful if inhaled H312 Harmful if in contact with skin H315 Causes skin irritation
(g) Other information	None known
Disclaimer: This information is based on our present states knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for – a particular application.	