#### **SAFETY DATA SHEET**



#### **PROPYLENE GLYCOL**

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

1.1 Product identifier:	
CAS Number:	57-55-6
EC number:	200-338-0
1.2 SYNONYMS:	<ul><li>1,2-Propanediol</li><li>Methylethylene glycol</li></ul>
	<ul><li>PG</li><li>Propane-1,2-diol</li></ul>

#### **SECTION 2: Hazards identification:**

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 None
Hazard Pictograms:	None
Signal Word:	None
Hazard statements:	None
YOUR CHEM	P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P261: Avoid breathing vapors. P280: Wear protective gloves, protective clothing, and eye protection. 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. P332 + P313: If skin irritation occurs:



	,
	P337 + P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	1 1 4 / 6
Inhalation:	may cause respiratory irritation, especially in high concentrations or prolonged exposure.
Ingestion:	large amounts may cause gastrointestinal irritation, nausea, or diarrhea.
Skin Contact:	may cause mild irritation, especially with prolonged or repeated exposure, leading to redness, dryness, or itching.
Eye contact:	may cause irritation, leading to redness, watering, or a stinging sensation.
Chronic Exposure:	Chronic exposure to propylene glycol, especially through prolonged skin contact or inhalation of vapors in high concentrations, may lead to skin dryness, irritation, or potential respiratory issues, although it is generally considered to have low toxicity with long-term exposure.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as skin conditions (e.g., eczema or dermatitis) or respiratory issues (e.g., asthma) due to its potential to cause irritation or allergic reactions.



### **SECTION 3: Composition/information on ingredients**

3.1 Chemical characterisation:	Substances
CAS No:	Description: 57-55-6 PROPYLENE
	GLYCOL
Identification number(s):	EC number: 200-338-0

## SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects of propylene glycol include acute skin and eye irritation, respiratory discomfort, and gastrointestinal upset from ingestion, with delayed effects potentially involving prolonged skin dryness or respiratory issues from chronic exposure.



4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

# SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Carbon oxides.
the substance or mixture:	
5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device. Cool
	tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
•	drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.



### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling:	For use in are with adequate
	ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
FOTD	containing material.
	Do not use in confined spaces.
	Electrostatic discharge protection.
	Minimize dust generation and
	accumulation. Avoid ingestion and
	inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area. Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
storer corris and receptacies.	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.7 Specific and uses:	no data available
7.3 Specific end uses:	110 data avallable

## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.



General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper
E21D	glove removal technique (without touching glove's outer surface) to
	avoid skin contact with this
	product. Dispose of contaminated
	gloves after use in accordance with applicable laws. Wash and dry
	hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Odourless
pH-value:	7
Melting point/Melting range:	-59°C
Boiling point/Boiling range:	188.2°C
Flammability (solid, gaseous):	Combustible
Ignition temperature:	399°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	99.5°C
Danger of explosion:	None
Explosion limits: Lower:	2.6%
Explosion limits: Upper:	12.5%
Vapour pressure:	0.12 mmHg at 20°C
Density at 20 °C:	1.036 g/cm <sup>3</sup>



Relative density:	1.036
Vapour density:	2.62
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Readily Soluble
·water at 20 °C:	
Partition coefficient:(n-	-0.92
octanol/water)	_ 14/p
Viscosity:	50 mPa.s at 20°C

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	Stable at room temperature
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Can undergo hazardous reactions
reactions	in contact with strong oxidizers.
10.4 Conditions to avoid	Heat, flames, strong oxidizing
	agents,
10.5 Incompatible materials	Strong oxidizing agents, strong
	acids, strong bases, strong
	reducing agents.
10.6 Hazardous decomposition	Acrolein, Aldehydes, Ketones,
products	Carbon monoxide and carbon
	dioxide.

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 22.000 mg/kg LD50 (Dermal, Rabbit): 2.000 mg/kg LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available



Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	14/h
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Readily Biodegradable

### **SECTION 12: Ecological information**

12.1 Toxicity	LC50(fish): 40.613 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): 18.340 mg/l (48 hr)
	ErC50(algae): 19.000 mg/l (72hr)
12.2 Persistence and	Readily Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water, mild detergents, isopropyl
VOUD OUENI	alcohol, acetone, sand.
YUUK CHEMI	CAL PAKINER

#### **SECTION 14: Transport information**

14.1 UN-Number · ADR, ADN,	3082
IMDG, IATA:	
14.2 UN proper shipping name ·	PROPYLENE GLYCOL
ADR, ADN, IMDG, IATA:	



14.3 Transport hazard class(es) ·	CLASS 9
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified in
regulations/legislation specific	listed substance.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

#### **SECTION 16: Other information**

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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