SYSTERM

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Product name: 2-Propanol

Name and address of Supplier: Classic Chemicals Sdn Bhd

19, Jalan Penerbit U1/43, Temasya Industrial Park, 40150 Shah Alam,Selangor

Emergency telephone no.: 03-5569 7989

2. Hazards identification

GHS Classification Classification according to CLASS regulations 2013

Flammable liquid, category 2	H225
Eye irritation, category 2	H319
Specific target organ toxicity (single	H336
exposure), category 3, narcotic effect	



GHS Label elements, including precautionary statements Labelling according to CLASS regulations 2013

Signal word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

SYSTERMSAFETY DATA SHEET

Product name: 2-Propanol

3. Composition/information on ingredients

Product name: Propan-2-ol

 $\begin{array}{lll} \text{CAS-No.:} & 67\text{-}63\text{-}0 \\ \text{Molar mass:} & 60.10 \\ \text{Molecular formula:} & \text{C}_3\text{H}_8\text{O} \\ \text{EC No.:} & 200\text{-}661\text{-}7 \\ \text{Index no.} & 603\text{-}117\text{-}00\text{-}0 \\ \end{array}$

other means of identification 2-Hydroxy propane Dimethyl carbinol Isopropanol

Isopropyl alcohol IPA

4. First aid measures

After inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

After skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cause, obtain medical attention.

After eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.

After ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.

5. Fire-fighting measures

Suitable extinguishing media:

Water spray, dry powder or vaporizing liquids

Special risks:

Highly flammable. Vapour/air mixture explosive.

6. Accidental release measures

Shut off all sources of ignition. Inform others to keep at a safe distance. Wear appropriate protective clothing.

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage container. Any residues should be treated as for small spillages.

SYSTERM

SAFETY DATA SHEET

Product name: 2-Propanol

7. Handling and storage

Handling:

All electrical equipment must be flameproofed.

Avoid contact with skin and eyes.

Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture. Store small containers in suitable flammable liquid storage cabinets when not in use. Larger drums (2001) must be kept in purpose-built stores.

8. Exposure controls/personal protection

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

Respiratory protection: Self-contained breathing apparatus when vapours are generated.

Ventilation; Fume cupboard, flameproof

Eye protection: Goggles or face-shield

Glove protection: Butyl rubber, Silver shield

Other precautions: Plastic apron, sleeves, boots – if handling large quantities

9. Physical and chemical properties

Form:	•	liquid	
Colour:		colourless	
Odour:		characteristic	
Viscosity dynamic	(20°C)	2.4	cps
Melting temperature		-89	°C
Boiling temperature		82	$^{\circ}\mathrm{C}$
Ignition temperature		425	$^{\circ}\mathrm{C}$
Flash point		12	$^{\circ}\mathrm{C}$
Explosion limits	lower	2.3	%
•	upper	12	%
Vapour pressure	(20°C)	33	mmHg
Relative vapour density		2.07	-
Density	(20°C)	0.78	g/ml
Solubility in water	(20°C)	Miscib	le in all proportions
$\log P(o/w)$:	•	0.05	

SYSTERMSAFETY DATA SHEET

Product name: 2-Propanol

10. Stability and reactivity

Formation of peroxides possible.

Substances to be avoided

alkali metals, alkaline earth metals, aluminium, oxidizing agent(i.a. perchlorates, CrO₃, nitric acid, nitrogen oxides, hydrogen peroxide), organic nitro compounds.

The possibility of reaction with other substances cannot be excluded.

11. Toxicological information

After inhalation: Irritation symptoms in the respiratory tract.

After skin contact: Slight irritation. Degreasing effect on the skin, possibly followed by secondary

inflammation.

After eye contact: Severe irritations.

After absorption: headache, dizziness, inebriation, unconsciousness, narcosis.

After uptake of large quantities: respiratory paralysis, coma.

Further data

LD₅₀ (oral,rat): 5045 mg/kg

Skin irritation test (rabbit): moderate irritant effect

No evidence of carcinogenic properties: Evidence of reproductive effects

12. Ecological information

Low aquatic toxicity. Bioaccumulation potential: low (log Pow <2), Biological degradability: goods.

Fish toxicity: LC₅₀ (Pimephales promelas): 11,130 mg/l/96h

Daphnia toxicity: EC₅₀ (Daphnia magna): 3010 mg/l/ NOEC: 757 mg/l

Algeal toxicity: EC₀ (Microcystis aeruginosa): 1,000 mg/l/8d

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

When recovery and recycling is not possible, incineration in a high temperature incinerator is the recommended method of disposal.

SYSTERM

SAFETY DATA SHEET

Product name: 2-Propanol

14. Transport information

Transport over land ADR/RID

ADR/RID class:

Name of material: ISOPROPANOL

Sea transport IMDG

IMDG class: 3 UN-No.: 1219 Packaging group: II

Correct technical name: ISOPROPANOL

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 3 UN/ID-No.: 1219 Packaging group: II

Correct technical name: ISOPROPANOL

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class (WGK) 1

Chemical Safety Assessment

No data available

16. Other information

Signal word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

Revision Date: 01 Jan 2025

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.