

SAFETY DATA SHEET

1.CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name : HYPER DEMIST2
Name of manufacturer : YAMAMOTO KOGAKU Co.,Ltd.
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Revised Date/Issued Data : 2023/1/6

2.HAZARDS IDENTIFICATION

GHS Classification

Physical and chemical hazards	Flammable liquids	Category 3	
Health hazards	Serious eye damage/eye irritation	Category 2	
	Carcinogenicity	Category 1	
	Reproductive toxicity	Category 1	
	Specific target organ systemic toxicity(single exposure)	Category 2	(central nervous system, systemic toxicity)
		Category 3	(respiratory irritation, drowsiness, dizziness)
	Specific target organ systemic toxicity(repeated exposure)	Category 1	(liver)
		Category 2	(central nervous system, blood system)
Environmental Hazards	Not classified		

GHS Label elements

Symbols



Signal word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H350	May cause cancer.
H360	May damage fertility or the unborn child .
H371	May cause damage to organs .
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure cause the hazard.
H373	May cause damage to organs through prolonged or repeated exposure cause the hazard.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210c	Keep away from heat/sparks/open flames/hot surfaces. – No

		smoking.
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical/ventilating/lighting/equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P303+P361 +P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P314	Get medical advice/attention if you feel unwell.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P370+P378	In case of fire: Use appropriate media to extinguish.
Storage	P403+P233	Store in a well ventilated place. Keep container tightly closed.
	P405	Store locked up.
Disposal	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Ingredients	CAS No.	(%)	Industrial Safety and Health Act substance subject to notice (Decree number)
Ethanol	64-17-5	20 ~ 25	61
Propan-2-ol	67-63-0	1 ~ 2	494
1-Propanol	71-23-8	2 ~ 3	494
fluorine-containing oligomer	Yes	~ 1	-
Perfluoroalkyl group-containing polyoxyethylene ether	Yes	~ 1	-

4.FIRST-AID MEASURES

IF INHALED	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
IF ON SKIN	: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash with plenty of soap and water. Get medical advice/attention if skin irritation occurs.
IF IN EYES	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	: Immediately call a POISON CENTER or doctor/physician.

Do not induce vomiting unless directed by a doctor.
Do not swallow vomit.

5.FIRE - FIGHTING MEASURES

Suitable extinguishing media : Dry chemical powder/Carbon dioxide/Foam and dry sand.
Unsuitable extinguishing media : Direct water jet
Specific hazards arising from the substance or mixture : Will form toxic carbon oxides upon combustion.
Advice for firefighters : Wear fire resistant or flame retardant clothing.
Cool container with water spray.
Extinguish the fire from the windward side and be sure to wear protective equipment.

6.ACCIDENTAL RELEASE MEASURES

Personnel precautions, protective equipment and emergency procedures : Wear proper protective equipment.
Evacuate personnel to safe area. Evacuate non-essential personnel.
Remove ignition sources and ventilate the area.
Prepare a suitable fire extinguisher in case of fire.
Environmental precautions : Do not wash away into sewer, watercourse or river.
Methods and material for containment and cleaning up : Collect spillage in sealable containers and remove to safe place.
Dispose of contaminated materials in accordance with current regulations.
Adhered matter, waste, etc. should be disposed of in accordance with the relevant laws and regulations.
Use tools made of materials that do not generate sparks due to impact or static electricity.
Collect by absorbing with non-combustible material such as dry sand or earth.
For large spills, embank to prevent runoff.

7.HANDLING AND STORAGE

Precautions for safe handling : Handle in a well-ventilated area. The container should be tightly capped each time.
Prohibit the use of fire, sparks, and high-temperature objects in the surrounding area.
Wear antistatic work clothes and shoes while working.
Use spark-proof tools.
Devices should be grounded, and electrical equipment should be explosion-proof.
After handling, wash your hands and face well, and do not bring contaminated protective equipment such as gloves into rest areas.
Storage : Avoid direct sunlight.
Keep out of the reach of children. Keep container in a well-ventilated place.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients	ACGIH(TLV-TWA)
Ethanol	-
Propan-2-ol	200ppm
1-Propanol	100ppm

Exposure controls	: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal protective equipment	
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	: Wear suitable gloves.
Eye protection	: Wear safety glasses with side shields.
Skin protection	: Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: colorless transparent
Odour	: alcohol smell
Boiling point or initial boiling point and boiling range	: 83°C (As Propan-2-ol)
Flammability	: No information available.
Lower and upper explosion limit/flammability limit	: No information available.
Flash point	: 11.7°C (As Propan-2-ol)
Auto-ignition temperature	: No information available.
Decomposition temperature	: No information available.
pH	: No information available.
Kinematic viscosity	: No information available.
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (log value)	: No information available.
Vapour pressure	: No information available.
Density and/or relative density	: No information available.
Relative vapour density	: No information available.
Particle characteristics	: No information available.

10. STABILITY AND REACTIVITY

Reactivity	: No self-reactivity.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under condition of normal use.
Condition to avoid	: High temperature, direct sunlight.
Incompatible materials	: No information available.
Hazardous decomposition products	: Such as CO, NO _x and halogen gas may be generated by combustion.

11. TOXICOLOGICAL INFORMATION

■ Ethanol	Flammable liquids	Category 2
	Serious eye damage/eye irritation	Category 2B
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1A
	Specific target organ systemic toxicity (single exposure)	Category 3 (respiratory irritation, drowsiness)

Specific target organ Category 1 (liver)
systemic toxicity(repeated Category 2 (central nervous system)
exposure)

■ Propan-2-ol

Flammable liquids Category 2
Serious eye damage/eye Category 2
irritation
Reproductive toxicity Category 2
Specific target organ Category 1 (central nervous system)
systemic toxicity(single Category 3 (respiratory irritation)
exposure)
Specific target organ Category 1 (blood system)
systemic toxicity(repeated Category 2 (respiratory organ, liver, spleen)
exposure)

■ 1-Propanol

Flammable liquids Category 2
Serious eye damage/eye Category 1
irritation
Reproductive toxicity Category 2
Specific target organ Category 3 (respiratory irritation, anesthetic
systemic toxicity(single effects)
exposure)

	Acute toxicity			carcinogenicity (IARC)
	oral (mg/kg)	dermal (mg/kg)	inhalation(vapor) (mg/L)	
Ethanol	LD50:>6200(rat)	LD50:>20000(Rabbit)	-	1A
Propan-2-ol	LD50:>4384(rat)	LD50:>4050(rat)	LD50:>27908(rat)	-
1-Propanol	LD50:>5045(rat)	LD50:>12870(rat)	-	-

12.ECOLOGICAL INFORMATION

	Hazardous to the aquatic environment	
	Acute hazard	Long-term hazard
Ethanol	-	-
Propan-2-ol	-	-
1-Propanol	-	-

Toxicity : No information available.
Persistence and degradability : No information available.
Bioaccumulative potential : No information available.
Mobility in soil : No information available.
Other adverse effects : No information available.

13.DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with the law or outsource the disposal.
Do not dump sewers, on the ground or into any of water.
When incinerating waste, do not use an incinerator that does not have cleaning facilities, as harmful gases are generated.
Waste generated from wastewater treatment, incineration, etc. shall be treated in accordance with relevant laws or outsourced.

14. TRANSPORT INFORMATION

UN number	: 1170
UN proper shipping name	: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport hazard class(es)	: 3
Packing group	: III
Environmental hazards	: Not applicable
Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code	: Yes
Emergency measure guidebook number	: 127
land transportation	: If applicable to the Fire Service Law, Industrial Safety and Health Law, and Poisonous and Deleterious Substances Law, follow the transportation method stipulated by each applicable law.
Marine transportation	: Comply with the provisions of the Ship Safety Law.
Air transportation	: Comply with the provisions of the Civil Aeronautics Act.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/registration specific for the substance or mixture

Industrial Safety and Health Act

substance subject to notice	: Ethanol, Propan-2-ol, 1-Propanol
Ordinance on Prevention of Hazards Due to Specified Chemical Substances	: Not applicable
Ordinance on Prevention of Organic Solvent Poisoning	: Not applicable
Ordinance on Prevention of Lead Poisoning	: Not applicable
Pollutant Release and Transfer Register	: Not applicable
Poisonous and Deleterious Substances Control Act	: Not applicable
Civil Aeronautics Act	: Flammable liquids
Ship Safety Law	: Flammable liquids
Fire Service Act	: Not applicable

16. OTHER INFORMATION

Reference: Japan Paint Manufacturers Association "Raw material data base"
"YOZAI Pocket Book"
International Chemical Safety Cards (ICSC)
SDS of raw materials
Chemical Risk Information Platform

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