SU 208-30T

Material Safety Data Sheet

According to MOEL Public notice 2023-9

Issue date: 7/11/2025 Revision date: 2/9/2026 Supersedes: 7/11/2025 Version: 1.1

1. Product and company identification

1.1. Product Name

Product form	:	Mixture
Trade name	:	SU 208-30T
Product code	:	TBB-20830T100

1.2. Recommended use of the chemical and restrictions on use

1.2.1. Recommended use

Recommended use : Thermal barrier polymer (Part B).

1.2.2. Restrictions on use

No data available

1.3. Supplier information

- Manufacturer

Company	:	Azon USA Inc.
Address	:	(49004) USA Michigan Kalamazoo 2204 Ravine Rd
Tel.	:	269-385-5942
Emergency information	:	For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call CHEMTREC at 080-880-0454 (Toll Free, Local, Korean) and provide CCN 2189 Back-up Emergency Number: +65 3163 8374 (Singapore, multilingual) +1-703-527-3887 (United States, answered in English, request other languages)

- Manufacturer

Company	:	Azon Asia Inc.
Address	:	(CB 27459 KOR) South Korea Chungju 168 Joongwon Ind Rd. Judeok
Tel.	:	+82 (0) 43 840 0500

2. Hazards identification

2.1. Hazard Classification

Flammable liquids, Not classified	
Acute toxicity (oral), Category 5	H303
Acute toxicity (dermal), Category 5	H313
Serious eye damage/eye irritation, Category 2B	H320
Hazardous to the aquatic environment – Acute Hazard Not classified	
Hazardous to the aquatic environment – Chronic Hazard, Not classified	

2.2. Label elements including precautionary statements

2.2.1. Hazard pictograms (GHS KR)

Not applicable

2.2.2. Signal word (GHS KR)

Warning.

2.2.3. Hazard statements (GHS KR)

H303+H313 - May be harmful if swallowed or in contact with skin
H320 - Causes eye irritation

2.2.4. Precautionary statements (GHS KR)

Precaution:

P264 - Wash hands, forearms and face thoroughly after handling.

Treatment:

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P312 - Call a doctor, a POISON CENTER if you feel unwell.

Storage:

Not applicable

Disposal:

Not applicable

2.3. Other Hazard which are not included in the classification criteria

Eye irritation

3. Composition/information on ingredients

Product form : Mixture

Substance name	Other Names	CAS-No. and Identifier number	Concentration (%)
Glycerol propylene oxide	No data available	CAS-No.: 25791-96-2	15 – 20
Diethylene Glycol-phthalic Anhydride Polymer	No data available	CAS-No.: 32472-85-8	12 – 18
Diethylene glycol	No data available	CAS-No.: 111-46-6 KECI-No.: KE-27694	6.5 – 14
Ethylene Glycol	No data available	CAS-No.: 107-21-1 KECI-No.: KE-13169	2 – 5

4. First-aid measures

4.1. Eye contact

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.

4.2. Skin contact

Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

4.3. Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If the victim is unconscious: Lay in a stable manner on victim's side.
Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth.
Call a physician immediately.

4.4. Ingestion

Rinse mouth.
Do NOT induce vomiting.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Call a poison center or a doctor if you feel unwell.

4.5. Indication of immediate medical attention and notes for physician

Call a physician or poison control center immediately.

5. Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	No fire hazard.
Reactivity in case of fire	:	The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Prevent fire fighting water from entering the environment.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear recommended personal protective equipment.
Evacuate the danger area.
If possible without taking personal risks, remove ignition sources.
If outdoors, move to an area upwind of the danger area.
Prevent other non-emergency personnel from entering the danger area.
Only qualified personnel equipped with suitable protective equipment may intervene.
Do not attempt to take action without suitable protective equipment.
For further information refer to section 8: "Exposure controls/personal protection".
Evacuate unnecessary personnel.
Stop leak if safe to do so.
Prevent runoff from entering drains, sewers or waterways.

6.2. Environmental precautions and protective procedures

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Stop leak without risks if possible.
Contain with non-combustible inert absorbent.
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Take up in non-combustible inert absorbent and place into container for disposal.
Contaminated absorbent material may pose the same hazard as the spilt product.
Decontaminate surfaces and equipment with water and detergent.
Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product.
Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.
Notify authorities if product enters sewers or public waters.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe mist, spray, vapours. Avoid contact with skin, eyes and clothing.

Hygiene measures : Always wash hands after handling the product.
Do not eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances.
Keep container tightly closed.

Incompatible materials : Strong acids, strong bases and strong oxidants.

Packaging materials : Always store product in container of same material as original container.

8. Exposure controls & personal protection

8.1. Control parameters (e.g. occupational exposure limit values, biological limit values)

Ethylene Glycol (107-21-1)

Korea - Occupational Exposure Limits

Local name	에틸렌 글리콜 # Ethylene glycol
ISHA OEL C	100 mg/m³ (증기 및 미스트) # (Vapor and mist)
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.
Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Personal protection equipment

Personal protective equipment

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment.
Wear recommended personal protective equipment.

Respiratory protection

In case of inadequate ventilation, wear respiratory protection.
Self-contained breathing apparatus

Eye protection

Chemical goggles or face shield

Hand protection

Wear protective gloves.
Protective gloves made of : Neoprene or nitrile rubber gloves, PVC or other plastic material or natural rubber gloves

Skin and body protection

Wear suitable protective clothing

Personal protective equipment symbol(s):

9. Physical and chemical properties

a) Appearance : Liquid.

	Physical state	:	Liquid
	Colour	:	Clear purple to black.
b)	Odour	:	Slight.
c)	Odour threshold	:	No data available
d)	pH	:	No data available
e)	Melting / freezing point	:	Not applicable / No data available
f)	Initial boiling point and boiling range	:	No data available
g)	Flash point	:	> 93.3 °C / >199.9 °F
h)	Evaporation rate	:	No data available
i)	Flammability (solid, gas)	:	Not applicable.
j)	Upper / lower flammability or explosive limits	:	No data available
k)	Vapour pressure	:	No data available
l)	Solubility	:	Solubility in water: Slightly soluble
m)	Vapour density	:	No data available
n)	Relative density	:	1.072 – 1.078 @ 25 °C / 77 °F
o)	Partition coefficient n-octanol/water (Log Kow)	:	No data available
p)	Auto-ignition temperature	:	No data available
q)	Decomposition temperature	:	No data available
r)	Viscosity, kinematic	:	No data available
	Viscosity, dynamic	:	570 – 670 cP @ 25 °C / 77 °F
s)	Molecular mass	:	No data available

10. Stability and reactivity

10.1. Chemical stability and Possibility of hazardous reactions

The product is non-reactive under normal conditions of use, storage and transport.
Stable at ambient temperature and under normal conditions of use.

10.2. Conditions to avoid

Incompatible materials.

10.3. Incompatible materials

Strong acids, strong bases and strong oxidants.

10.4. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Thermal decomposition generates:
Carbon dioxide.
Carbon monoxide.
Nitrogen oxides.

11. Toxicological information

11.1. Information on the likely routes of exposure

Oral	:	May be harmful if swallowed.
Skin and eyes contact	:	Acute toxicity (dermal) - May be harmful in contact with skin. Serious eye damage/eye irritation - Causes eye irritation.
Inhalation	:	Not classified

11.2. Health hazards information

Acute toxicity (oral):

May be harmful if swallowed.

Acute toxicity (dermal):

May be harmful in contact with skin.

Acute toxicity (inhalation):

Not classified

SU 208-30T	
ATE KR (oral)	2500 mg/kg bodyweight
ATE KR (dermal)	3413.462 mg/kg bodyweight

Glycerol propylene oxide (25791-96-2)	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
LD50 dermal rat	> 2000 mg/kg

Diethylene glycol (111-46-6)	
LD50 oral rat	12000 mg/kg
LD50 oral	15600 mg/kg
LD50 dermal rabbit	11890 mg/kg
LD50 dermal	13300 mg/kg

Ethylene Glycol (107-21-1)	
LD50 oral rat	4700 mg/kg bodyweight
LD50 oral	6140 mg/kg
LD50 dermal rat	9530 mg/kg bodyweight
LD50 dermal	> 3549 mg/kg

Skin corrosion/irritation:

Not classified

Ethylene Glycol (107-21-1)	
Skin corrosion/irritation, rabbit	Not irritating to skin

Serious eye damage/irritation:

Causes eye irritation.

Diethylene glycol (111-46-6)	
Serious eye damage/irritation, rabbit	Slightly irritating

Ethylene Glycol (107-21-1)	
Serious eye damage/irritation, rabbit	<40% Irritating to eyes (Fully reversible effects within 7 days of observation)

Respiratory sensitization:

Not classified

Skin sensitization:

Not classified

Ethylene Glycol (107-21-1)	
Guinea pig maximization test	Not sensitive
Skin sensitization, human	Not sensitive

Carcinogenicity:

Not classified

Diethylene glycol (111-46-6)	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight

Mutagenicity:

Not classified

Ethylene Glycol (107-21-1)	
Germ cell mutagenicityDominant lethal test, rat	Negative

Reproductive toxicity:

Not classified

Glycerol propylene oxide (25791-96-2)	
NOAEL (animal/male, F0/P)	≥ 1000 mg/kg bodyweight
NOAEL (animal/female, F0/P)	300 mg/kg bodyweight

STOT-single exposure:

Not classified

STOT-repeated exposure:

Not classified

Glycerol propylene oxide (25791-96-2)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight

Diethylene glycol (111-46-6)	
LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight

Aspiration hazard:

Not classified

Glycerol propylene oxide (25791-96-2)	
Viscosity, dynamic	560.6 mPa·s

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Viscosity, dynamic	231 mPa·s Source: ECHA

Diethylene glycol (111-46-6)	
Viscosity, dynamic	30 cP

Ethylene Glycol (107-21-1)	
Viscosity, kinematic (calculated value) (40 °C)	14.459 mm²/s
Density	1.1135 g/cm³
Viscosity, dynamic	16.1 mPa·s

12. Ecological information

12.1. Aquatic and terrestrial ecotoxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified.

Hazardous to the aquatic environment, long–term (chronic) : Not classified.

Glycerol propylene oxide (25791-96-2)	
LC50 - Fish [1]	218000 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 96h - Algae [1]	103000 mg/l
EC50 72h - Algae [1]	> 100 mg/l
LOEC (chronic)	> 10 mg/l
NOEC (chronic)	≥ 10 mg/l

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
LC50 - Fish [1]	≥ 100 mg/l
ErC50 algae	157.4 mg/l
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9

Diethylene glycol (111-46-6)	
LC50 - Fish [1]	75200 mg/l
EC50 96h - Algae [1]	6500 – 13000 mg/l
EC50 96h - Algae [2]	9362 mg/l
NOEC (chronic)	≥ 1000 mg/l
Partition coefficient n-octanol/water (Log Pow)	-1.47

Ethylene Glycol (107-21-1)	
LC50 - Fish [1]	> 72860 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 96h - Algae [1]	6500 – 13000 mg/l
ErC50 algae	> 1000 mg/l
NOEC (chronic)	≥ 1000 mg/l
NOEC chronic fish	32000 mg/l 7 days
NOEC chronic crustacea	24000 ml/l (48h)
Partition coefficient n-octanol/water (Log Pow)	-0.337
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0

12.2. Persistence and degradability

SU 208-30T	
Persistence and degradability	Not established.

Glycerol propylene oxide (25791-96-2)	
Persistence and degradability	Not rapidly degradable

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Persistence and degradability	Not rapidly degradable

Diethylene glycol (111-46-6)	
Persistence and degradability	Not rapidly degradable

Ethylene Glycol (107-21-1)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

SU 208-30T	
Bioaccumulative potential	Not established.

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9

Diethylene glycol (111-46-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.47

Ethylene Glycol (107-21-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.337
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0
Bioaccumulative potential	Does not bioaccumulate.

12.4. Mobility in soil

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)	
Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9

Diethylene glycol (111-46-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.47

Ethylene Glycol (107-21-1)	
Mobility in soil	0.2
Partition coefficient n-octanol/water (Log Pow)	-0.337
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No data available

13. Disposal considerations

13.1. Disposal method

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Ecological waste information : Avoid release to the environment.

13.2. Disposal precaution

Product/Packaging disposal recommendations	:	Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Sewage disposal recommendations	:	Disposal must be done according to official regulations.
Additional information	:	Do not re-use empty containers.

14. Transport information

In accordance with UN RTDG / ADR / IMDG / IATA

UN RTDG	ADR	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Marine pollutant			
		Not regulated	
No data available			

14.6. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises

No data available

15. Regulatory information

15.1. Occupational Safety and Health Act

Hazardous Substances Prohibited for Manufacturing	Not applicable	
Hazardous Substances Requiring Permission	Not applicable	
Threshold Limit Values Chemicals	Applicable	107-21-1: Ethylene glycol(Vapor and mist)
Hazardous Substances Below Permissible Level	Applicable	SU 208-30T
Hazardous Substances Subject to Working Environment Measurement	Applicable	107-21-1: Ethylene glycol (Measurement Cycle: 6 months) (contains above 1%)
Hazardous Substances Subject to Workers Requiring Health Examination	Applicable	107-21-1: Ethylene glycol (Examination Cycle: 12 months) (contains above 1%)
Hazardous Substances Subject to Control	Applicable	107-21-1: Ethylene glycol (contains above 1%)
Substance Subject to Submission of PSM	Not applicable	

15.2. Chemical Substances Control Act

Substance Hazardous to Human Health and Environment	Not applicable	
Prohibited Substances	Not applicable	
Restricted Substances	Not applicable	
Substances Requiring Preparation for Accident	Not applicable	

15.3. Safety Control of Dangerous Substances Act

Safety Control of Dangerous Substances Act	Applicable	111-46-6: diethylene glycol (Class 4 Flammable liquid - category 5 Third class Petroleum Water-soluble (Designated quantity: 4,000 liter))

107-21-1: Ethylene glycol
(Class 4 Flammable liquid - category 5 Third class Petroleum Water-soluble (Designated quantity: 4,000 liter))

15.4. Wastes Control Act

Hazardous Substances in Designated wastes	Not applicable
Types of wastes	No data available

15.5. Other requirements in domestic and other countries

Act on Registration and Evaluation of Chemicals (K-REACH)

Korea Existing Chemicals Inventory (KECI)	Applicable	25791-96-2: α,α',α''-1,2,3-Propanetriyltris[ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] ; Polyoxypropylene glycerol triether (KECI-No. : KE-29338) 32472-85-8: 1,3-Isobenzofurandione polymer with 2,2'-oxybis[ethanol] (KECI-No. : KE-21412) 111-46-6: Diethylene glycol (KECI-No. : KE-27694) 107-21-1: 1,2-Ethanediol ; Ethylene glycol (KECI-No. : KE-13169)
Priority Existing Chemicals (PEC)	Applicable	SU 208-30T
Substances Subject to Intensive Control	Applicable	SU 208-30T
CMR Substances	Not applicable	

Other Domestic Regulations

Persistent Organic Pollutants(POPs) Control Act	Not applicable	
Ozone Depleting Substances(ODS)	Not applicable	
PRTR Substances	Applicable	SU 208-30T

EU Regulatory Information

EU Candidate list (SVHC)	Contains no substance(s) listed on the REACH Candidate List
EU authorization list (REACH Annex XIV)	Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
EU restriction list (REACH Annex XVII)	Not applicable

US Regulatory Information

CERCLA Section 103 (40CFR302.4)	Contains listed substances
EPCRA Section 302 (40CFR355.30)	Contains listed substances
EPCRA Section 304 (40CFR355.40)	Contains listed substances
EPCRA Section 313 (40CFR372.65)	Contains listed substances

16. Other information

16.1. Information source and references

SDS prepared by CHEMTREC.

16.2. Issue date

7/11/2025

16.3. Revision number and Revision date

Version	:	1.1
Revision date	:	2/9/2026

16.4. Others

No data available

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.