

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

Chemical Chinese name	聚氧化丙烯醚多元醇
Chemical English name	Poly(propylene oxide) polyol
Commodity Chinese name	聚醚多元醇 INOVOL® C210
Commodity English name	Polyether polyol INOVOL® C210

IDENTIFICATION

Company	Shandong INOV New Materials Co., Ltd
Address	No.58, Fengguan Road, East Chemical Zone, Qilu Chemical Industrial Park, Zibo, Shandong, China.
Zip code	255000
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RECOMMENDED USE AND LIMITED USE

Recommended use	material of polyurethane polymer
Limited use	N/A

2. Hazards identification

Emergency identification

Transparent liquid without suspended matter

GHS risk category

Do not belong to the dangerous substance or mixture according to the global harmonized system

Label element

symbol/pictogram	none
signal word	N/A
hazard defines	N/A

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prevention defines

precaution	none
response	none
storage	none
dispose	none

Physical and chemical risk

N/A

Health hazard

N/A

Environment hazard

N/A

Other hazards

N/A

3. Composition and information on ingredients

mixture

chemical	CAS number	weight %
Polymer of 1,2-propanediol and methyl ethylene oxide	25322-69-4	100

4. First aid measures

Description of first aid measures

inhalation	Not a desired contact way
Skin Contact	No special technology protection measures
Eye Contact	Not a desired contact way
Ingestion	Gargle, Medical treatment. Do not give anything to unconscious patient via the mouth.

Most important symptom and health effects(including acute and delayed)

N/A.

Advice to protecting rescuer

Use personal protective equipment according to requirements

Special note to doctor

Symptomatic treatment

**5. Firefighting measures****Extinguishing agent**

Appropriate extinguishing agent

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Inappropriate extinguishing agent

Large capacity water injection

Special risk

Thermal decomposition can lead to release the excitant and toxic gases and vapors.

Fire precautions and protective measures

Evacuate people to safety. Remove the container out from the fire on the premise of no risk. Use the water spray cooling barrel. Firefighters should wear self-contained breathing apparatus and a full range of fire protection clothing and stay on the tuyere. Ensure adequate ventilation especially in confined areas.

6. Accidental release measures

Personnel protective measures, protective equipment and emergency disposal procedures

Ensure adequate ventilation especially in confined areas and remove all fire.

Environmental Protection Measures

Can not make the leakage into any sewers, on the ground or into any water.

Collection , removal method and used materials of leaked chemicals

Collect and transfer to the appropriate labeled container.

Prevention measures that prevent secondary hazard

Avoid dust. Prevent further leaks or spillage under the safe feasible condition. Remove all fire.

7. Operation treatment and storage

Operation treatment

Ensure adequate ventilation especially in confined areas. Thoroughly clean after operation. Remove all fire.
Do not eat, drink or smoke when using.

Storage

Keep container closed and placed in dry and ventilated place. Away from heat, sparks, fire and other fire.



8. Exposure controls/Personal protection

Exposure limit

N/A

Engineering control

Shower, eye machine. Use local exhaust ventilation. Ensure adequate ventilation especially in confined areas.

Individual protective equipment

Respiratory protection	Wear appropriate protective equipment if poorly ventilated.
Eye surface protection	No special technology protection measures
Skin and body protection	Wear appropriate protective clothing
Hand protection	No special technology protection measures

9. Physical and chemical properties

Appearance	Transparent liquid without suspended matter
Odor	Ether odor
Odor thresholds	N/A
pH	5.0-7.0
Melting point/freezing point	N/A
Boiling point/boiling range	N/A
Flash point	>100°C
Evaporation rate	N/A
Inflammability(Solid, gas)	nonflammable
explosion limits	N/A
Vapour pressure	N/A
Vapour density	N/A

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Density	1.05±0.10 g/cm ³
Relative density	N/A
Water solubility	N/A
Partition coefficient (LogPow)	N/A
Autoignition temperature	N/A
Decomposition temperature	N/A
Kinematic viscosity	N/A
Dynamic viscosity	120-180 mPa.s(at 25°C)
Explosiveness	unexplosive
Oxidability	N/A

10. Stability and reactivity

Stability

Stable under normal conditions.

Risk response

Will not occur during normal processing.

Conditions should be avoided

Heat, flame and spark.

Prohibited content

N/A

Dangerous breakdown products

There won't be under normal use conditions.

11. Toxicological information

Acute toxicity

N/A

Corrosion/skin stimulation

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No stimulation to skin

Serious eye injury/eye stimulation

No eye irritation.

Allergenic

No sensitization reaction was observed.

Germ cell mutagenicity

N/A

Carcinogenicity

N/A

Reproduction

N/A

STOT – single-contac

N/A

STOT – repeated contact

N/A

Inhalation hazard

N/A

12. Ecology information

Ecotoxicity

N/A

Persistence and degradability

N/A

Potential biological accumulating

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N/A

Mobility in the soil

N/A

Other environmental harm

N/A



13. Disposal considerations

Waste disposal method

Waste residue/unused product Waste disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Empty containers should be recycled, restored or disposed in the local

14. Transport information

UN number	Unregulated
Proper Shipping Name	Unregulated
Criticality category	Unregulated
Packaging group	Unregulated
Environmental harm	N/A
Special precautions	N/A

bulk transport according to the attachment of MARPOL and IBC N/A

15. Regulatory information

China

Component	IECSC	危险货物物品名表	中国-危险化学品目录
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Polymer of 1,2-propanediol and methyl

ethylene oxide

X

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25322-69-4

International directory

Component	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	KECL	PICCS	TSCA
Polymer of 1,2-propanediol and methyl ethylene oxide 25322-69-4	X	X	X	X	X	X	X
"X" included							
"-" not included							

16. Other information

Revision note

Issuing date

December 5, 2017

revision date

June 14, 2019

Revision note

N/A

The explanation or illustration of Acronyms and abbreviations used in safety data sheet

TWA - TWA (Time-weighted average concentration)

STEL - STEL (Short-term exposure limits)

Ceiling - The biggest limit

TSCA - The toxic substances control act 8 (b) section list

DSL/NDSL - Canadian domestic substance list/non domestic listing

IECSC - Existing chemical list in China

EINECS/ELINCS - Existing chemicals list/ notified chemical list in Europe

ENCS - Existing and new chemical substance in Japan

KECL - Existing and assessed chemicals in Korea

NZIoC - Chemical list in New Zealand

PICCS - Chemicals and chemical substances list in Philippines

AICS - Chemicals list in Australia

References and data sources

ECHA: <http://echa.europa.eu/>

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IFA GESTIS: [http://gestisen.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestisen.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)**HSDB:** <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>**ICSC:** <http://www.ilo.org/dyn/icsc/showcard.home>**eChemPortal:** http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en**NITE-CHRIP:** http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput**Disclaimer**

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----- End of material safety data sheet -----