Safety Data Sheet
NOVACOTE CA-7906
Safety Data Sheet dated 11/14/2022 version 1

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

1.1. Product identifier

Mixture identification:

Trade name: NOVACOTE CA-7906
Trade code: NOVACOTE CA-7906
Registration Number N/A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: cross-linking agent
Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: COIM Asia Pacific Pte Ltd
10 Seraya Place
Singapore 627843
Tel: +65 68967068
Fax: +65 68967065

1.4. Emergency telephone number

+65 68967068 (24hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

0 This product is not dangerous according to Singapore GHS (SS 586, revision 2014).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

This product is not dangerous according to Singapore GHS (SS 586, revision 2014).

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: NOVACOTE CA-7906

Hazardous components within the meaning of Singapore GHS and related classification:

Quantity	Name	Ident. Numb.	Classification
≥ 5 - < 10 %	Diethylene glycol (DEG)	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6	Acute Tox. 4, H302; STOT RE 2, H373

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap in case of skin redness or irritation.

In case of eye contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

Extinguishing media which must not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Fire-fighters should wear positive pressure self-contained breathing apparatus and personal protective equipments, such as jacket (standard: EN469), helmet (standard: EN443), gloves (standard: EN407), boots (standard: EN345-S3 HI WRU HRO).

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorb with inert, absorbent material.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorb with inert, absorbent material.

In case of heavy spills: wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Do not eat or drink or smoke while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store at moderate temperature in a dry and well-ventilated place

Incompatible materials:

See Section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

Refer to paragraph 1.

Industrial sector specific solutions:

Refer to paragraph 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Diethylene glycol (DEG)	NATIONAL	GERMANY		44.000	10.000	176.000	40.000		AGS, DFD
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		101.000	23.000				WEL
	NATIONAL	AUSTRALIA		100.000	23.000				SWA
	NATIONAL	AUSTRIA		44.000	10.000	176.000	40.000		MAK
	NATIONAL	DENMARK		11.000	2.500	22.000	5.000		
	NATIONAL	IRELAND		100.000	23.000				
	NATIONAL	LATVIA		10.000					
	NATIONAL	NEW ZEALAND		101.000	23.000				
	NATIONAL	SWEDEN		45.000	10.000	90.000	20.000		
	NATIONAL	SWITZERLAND		44.000	10.000	176.000	40.000		

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
Diethylene glycol (DEG)	111-46-6	10.000 mg/l	Fresh Water		
		1.000 mg/l	Marine water sediments		Sediment
		20.900 mg/kg			
		1.530 mg/kg	Fresh Water		
		10.000 mg/l			STP
		199.500			Aquatic Intermittent release

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
Diethylene glycol (DEG)	111-46-6	106.000 mg/kg		53.000 mg/kg	Human Dermal	Long Term, systemic effects	
		0.060 mg/l		0.012 mg/l	Human Dermal	Long Term, local effects	

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Color: colorless-amber

Odour: Odourless

pH: N.A.

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >250 °C (482 °F)

Upper/lower flammability or explosive limits, %: N.A.
Vapour density (air = 1): N.A.
Vapour pressure: N.A.
Density: 1.20 g/cm3 Notes (20°C)
Solubility in water: Insoluble
Solubility in other solvents: Soluble
Partition coefficient (n-octanol/water): N.A.
Nanoforms dispersion stability
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: N.A.
Volatile Organic compounds - VOCs = N.A.
Particle characteristics:
Particle size: N.A.

9.2. Other information

Evaporation rate: N.A.
Miscibility: N.A.
Conductivity: N.A.
Viscosity: 2000-3000mpas at 25°C
No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the mixture:

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
	ATEmix - Oral : 6250 mg/kg bw
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Diethylene glycol (DEG)	Generic information:	None specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.	
	a) acute toxicity	LD50 Oral Rat 19600.00000 mg/kg - Based on available data, the classification criteria are met.	
		LD50 Skin Rabbit 13300.00000 mg/kg - Based on available data, the classification criteria are not met	
		LC50 Inhalation Rat > 4.60000 mg/l - Based on available data, the classification criteria are not met	4 h
	b) skin corrosion/irritation	Skin Irritant Negative - Based on available data, the classification criteria are not met	
	c) serious eye damage/irritation	Eye Irritant No - Based on available data, the classification criteria are not met	
	d) respiratory or skin sensitisation	Respiratory Sensitization - Based on available data, the classification criteria are not met	
		Skin Sensitization - Based on available data, the classification criteria are not met	
	e) germ cell mutagenicity	Mutagenesis Negative - Based on available data, the classification criteria are not met	
	f) carcinogenicity	Carcinogenicity Oral Rat Negative 750.00000 mg/kg - Based on available data, the classification criteria are not met	
	g) reproductive toxicity	No Observed Adverse Effect Level Rabbit 1000.00000 mg/kg - Based on available data, the classification criteria are not met	

11.2 Information on other hazards

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
Diethylene glycol (DEG)	CAS: 111-46-6 - EINECS: 203-872-2 - INDEX: 603-140-00-6	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 75200.00000 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 10000 mg/L - 24 h
		a) Aquatic acute toxicity : IC50 Algae > 100.00000 mg/L 72h

12.2. Persistence and degradability

Component	Persitence/Degradability:
Diethylene glycol (DEG)	Readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

12.6 Endocrine disrupting properties

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR/RID-Shipping Name: N/A
IATA-Technical name: N/A
IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR/RID-Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

14.4. Packing group

ADR/RID-Packing Group: N/A
IATA-Packing group: N/A
IMDG-Packing group: N/A

14.5. Environmental hazards

Toxic Ingredients Qty: 0.00
High Toxicity Ingredients Qty: 0.00
Marine pollutant: No
Environmental Pollutant: No
IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A
ADR - Hazard identification number: N/A
ADR-Special Provisions: N/A
ADR-Transport category (Tunnel restriction code): N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A
IATA-Cargo Aircraft: N/A
IATA-Label: N/A
IATA-Subsidiary hazards: N/A
IATA-Erg: N/A
IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None
Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)
German Water Hazard Class.
SVHC Substances:

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure (inhalation).

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATP: Adaptation to Technical Progress

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: Half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep away from heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NEN1: ND: National emergency telephone number: not available

NEN2: ND: National emergency telephone number: not available
NEN3: ND: National emergency telephone number: not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.
UFI: unique formula identifier