Safety Data Sheet
NOVACOTE SF-7660
Safety Data Sheet dated: 9/26/2016 - version 2
Date of first edition: 9/6/2016

SECTION 1: Identification

Product Identifier

Mixture identification:

Trade name: NOVACOTE SF-7660
Trade code: NOVACOTE SF-7660
Registration Number N/A

Recommended use of the chemical and restrictions on use

Recommended use: polyester polyol
Uses advised against: N.A.

Supplier's details

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

Emergency phone number

+65 68967068 (24hrs)

SECTION 2:Hazards identification

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

GHS label elements, including precautionary statements

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

Other hazards which do not result in a classification

Other Hazards: No other hazards

SECTION 3:Composition/information on ingredients

Substances

N.A.

Mixtures

Mixture identification: NOVACOTE SF-7660

List of components

Quantity	Name	Ident. Numb.
1-5 %	2,2'-oxydiethanol	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6

SECTION 4: First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Wash with plenty of water and soap.

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.

Most important symptoms/effects, acute and delayed

N.A.

Indication of immediate medical attention and special treatment needed, if necessary

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Water.

Carbon dioxide (CO_2).

Unsuitable extinguishing media:

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

Special hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective actions for fire-fighters

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

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

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.

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.

SECTION 7: Handling and storage

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.

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.

SECTION 8: Exposure controls/personal protection

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
2,2'-oxydiethanol	NATIONAL	GERMANY		44.000	10.000	176.000	40.000		AGS, DFD
	NATIONAL	UNITED KINGDOM		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
2,2'-oxydiethanol	111-46-6	10.000 mg/l	Fresh Water		
		1.000 mg/l	Marine water		Sediment
		20.900 mg/kg			
		1.530 mg/kg	Soil (agricultural)		
		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
2,2'-oxydiethanol	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	

Appropriate engineering controls

N.A.

Individual protection measures, such as personal protective equipment (PPE)

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.

SECTION 9: Physical and chemical properties

Physical State: Liquid

Appearance and colour: colorless-amber

Odour: odourless

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >250°C

Evaporation rate: N.A.

Flammability (Solid, Gas) N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density (air = 1): N.A.

Density: 1.19 g/cm3 Notes: (20°C)

Solubility in water: Insoluble

Solubility in oil: Soluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 6000-10000cps at 25°C

Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Conductivity: N.A.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Data not Available.

Possibility of hazardous reactions

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

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

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

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

2,2'-oxydiethanol	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 19600.00000mg/kg	
		LD50 Skin Rabbit 13300.00000mg/kg	
		LC50 Inhalation Rat > 4.60000mg/l	4 h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity

b) skin corrosion/irritation

c) serious eye damage/irritation

d) respiratory or skin sensitisation

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

SECTION 12: Ecological information

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 - 67-548-EC: 603-140-00-6	LC50 a) Aquatic acute toxicity Fish Pimephales promelas75200.00000mg/L 96h
		EC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 10000mg/L 24 h
		IC50 a) Aquatic acute toxicity Algae > 100.00000mg/L 72h

Persistence and degradability

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

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

SECTION 13: Disposal considerations

Disposal methods

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

SECTION 14: Transport information

The product is not regulated under international transport regulations.

UN number

N.A.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group, if applicable

N.A.

Environmental hazards

N.A.

Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

SECTION 15: Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to:

SS 586 : Part 1 (2014)

SS 586 : Part 2 (2014)

SS 586 : Part 3 (2014)

SECTION 16: Other information

Code	Description
H302	Harmful if swallowed.
H373.2	May cause damage to organs through prolonged or repeated exposure.

Key/legend to the abbreviations and acronyms

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

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: Instituto de Hospitalización y Asistencia de Carácter Científico
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
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
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.

Date of revision of this SDS

Safety Data Sheet dated: 9/26/2016 - version 2

Paragraphs modified from the previous revision:

- 9. PHYSICAL AND CHEMICAL PROPERTIES