### Safety Data Sheet

according to the Model Work Health and Safety Regulations Issue date: Revision date:14/02/2022 Supersedes:28/04/2021 Version: 1.4

SDS No: 00359-1298



#### **SECTION 1: Product identifier**

#### 1.1. GHS Product identifier

Product form : Mixture

Product name : ESKANOL EF SOLUTION

Product code : 10019, 10020

### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Binding agent

#### 1.4. Details of manufacturer or importer

Supplier Importer

TIP TOP Oberflaechenschutz Elbe GmbH REMA TIP TOP Australia Pty Ltd.

4 Heuweg 3/20 Worth Street
Wittenberg 6886 Chullora NSW 2190

Germany Australia

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

#### 1.5. Emergency phone number

Emergency number : +61-280735031, Infotrac/GBK GmbH-ID: 93591

#### **SECTION 2: Hazard identification**

#### 2.1. Classification of the hazardous chemical

### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Skin sensitisation, Category 1

Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)





Exclamation Environment

mark

Signal word (GHS AU) : Warning

Contains : bis-[4-(2,3-epoxipropoxi)phenyl]propane (< 60 %); Reaction products of hexane-1,6-diol

with 2-(chloromethyl)oxirane (< 25 %); Bisphenol-F epoxy resin (< 20 %); Phenol,

methylstyrenated (< 10 %)

Hazard statements (GHS AU) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS AU) : P261 - Avoid breathing vapours.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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P280 - Wear eye protection, face protection, protective gloves, protective clothing.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 - If skin irritation or rash occurs: Get medical attention.

P337+P313 - If eye irritation persists: Get medical attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P501 - Dispose of contents and container to a hazardous or special waste collection point.

#### 2.3. Other hazards which do not result in classification

No additional information available

### **SECTION 3: Composition and information on ingredients**

Comments : Mixture of the substances listed below with nonhazardous additives.

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3	< 60	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	933999-84-9	< 25	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Bisphenol-F epoxy resin	9003-36-5	< 20	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Phenol, methylstyrenated	68512-30-1	< 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

### **SECTION 4: First aid measures**

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

### 4.1. Description of necessary first-aid measures

First-aid measures general : Take off immediately all contaminated clothing. In the event of persistent symptoms receive medical treatment.

First-aid measures after inhalation : Move to fresh air in case of accidental inhalation of vapours or decomposition products. In

the event of persistent symptoms receive medical treatment.

: Wash off immediately with soap and plenty of water. Get medical advice if skin irritation

persists.

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist.

: Do not induce vomiting. Drink plenty of water or milk. Never give anything by mouth to an unconscious person. Call a physician immediately. Do not induce vomiting without medical advice.

#### 4.2. Symptoms caused by exposure

Symptoms/effects after skin contact : May cause an allergic skin reaction. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

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4.3. Medical attention and special treatment

Treatment : Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Alcohol resistant foam. Carbon dioxide.

Unsuitable extinguishing media : high volume water jet.

#### 5.2. Specific hazards arising from the chemical

General measures : In case of vapour formation use adequate respirator. Ensure adequate air ventilation.

Concerning personal protective equipment to use, see section 8.

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Phenoles.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Hazchem Code : \* 3Z

Other information : Cool containers / tanks with spray water if possible. Fire residues and contaminated

firefighting water must be disposed of in accordance with the local regulations. Collect contaminated firefighting water separately, must not be discharged into the drains.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : In case of vapour formation use adequate respirator. Ensure adequate air ventilation.

Concerning personal protective equipment to use, see section 8.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Clean contaminated surface thoroughly.

#### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents). Shovel or sweep up and put in a closed container for disposal.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Keep the container tightly closed. Provide appropriate exhaust ventilation at places of dust

forming. Avoid contact with skin, eyes and clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place. Keep out of direct

sunlight.

Incompatible materials : oxidizing materials. Amines. Acids. Bases.

Storage temperature : 10 – 30 °C

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Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

#### **SECTION 8: Exposure controls and personal protection**

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Biological Monitoring

No additional information available

#### 8.3. Engineering controls

Appropriate engineering controls

: Pay attention to explosion protection guidelines. Ensure good ventilation of the work station.

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

Hand protection

: This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves. Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Fluoro-rubber (Viton) - FKM	2 (> 30 minutes)	0,7		EN ISO 374
protective gloves	Nitrile rubber (NBR)	1 (> 10 minutes)	0,4		EN ISO 374

Tightly fitting goggles (EN 166). Eyewash bottle with clean water (EN 15154) Eye protection

Skin and body protection

Long sleeved protective clothing

Type

Standard

**EN ISO 6530** Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Respiratory protective device with a gas filter	Type A		EN 14387

Environmental exposure controls : Avoid release to the environment.

Other information Do not inhale vapour. Wash hands before breaks and at the end of workday. Do not eat,

drink or smoke when using this product. Remove and wash contaminated clothing before

re-use. Avoid contact with skin, eyes and clothing.

### **SECTION 9: Physical and chemical properties**

Physical state : Liquid

Appearance : No data available Colour Transparent Odour Slight

Odour threshold : No data available рΗ Not determined Relative evaporation rate (butylacetate=1) No data available Melting point / Freezing point No data available

Boiling point > 90 °C Flash point > 93 °C

Auto-ignition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative density No data available : Density: 1.14 g/cm<sup>3</sup> Density Solubility : Water: Not miscible

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: No data available Log Pow : 465 - 700 mPa.s Viscosity, dynamic Explosive properties : No data available Explosive limits : No data available Minimum ignition energy : No data available

VOC content : < 5 %

Fat solubility : No data available

### SECTION 10: Stability and reactivity

: No decomposition if stored and applied as directed. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions : Reactions with acids, alkalies and oxidizing agents. Amines.

Conditions to avoid To avoid thermal decomposition, do not overheat. Keep out of direct sunlight.

Incompatible materials Oxidizing agent. Amines. Acids. Bases.

: Fire may produce: Carbon monoxide. Carbon dioxide. Phenoles. Hazardous decomposition products

### **SECTION 11: Toxicological information**

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Bisphenol-F epoxy resin (9003-36-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Causes skin irritation.

pH: Not determined

Serious eye damage/irritation : Causes serious eye irritation.

pH: Not determined

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

### **SECTION 12: Ecological information**

### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

: Toxic to aquatic life with long lasting effects. Hazardous to the aquatic environment, long-term

(chronic)

Other information : Do not flush into surface water or sewer system.

Bisphenol-F epoxy resin (9003-36-5)	
LC50 fish 1	2.54 mg/l
ErC50 algae	> 1000 mg/l

### 12.2. Persistence and degradability

ESKANOL EF SOLUTION	
Persistence and degradability	Not readily biodegradable.

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#### 3D3 110: 00333-1230

### 12.3. Bioaccumulative potential

ESKANOL EF SOLUTION	
Bioaccumulative potential	No data available.

### 12.4. Mobility in soil

ESKANOL EF SOLUTION	
Ecology - soil	No data available.

#### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : Significantly hazardous to water.

Other adverse effects .	Significantly nazardous to water.
ESKANOL EF SOLUTION	
Fluorinated greenhouse gases	False
Bisphenol-F epoxy resin (9003-36-5)	
Fluorinated greenhouse gases	False
bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)	
Fluorinated greenhouse gases	False
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (933999-84-9)	
Fluorinated greenhouse gases False	
Phenol, methylstyrenated (68512-30-1)	
Fluorinated greenhouse gases	False

### **SECTION 13: Disposal considerations**

Waste treatment methods : Recycling is preferred to disposal or incineration. Can be incinerated according to local regulations. Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Product/Packaging disposal recommendations : Packaging that cannot be cleaned should be disposed of like the product. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be

taken for reuse. Empty containers should be taken for local recycling, recovery or waste

disposal.

Additional information : Flammable vapours may accumulate in the container.

### **SECTION 14: Transport information**

### 14.1. UN number

UN-No. (ADG) : 3082 UN-No. (IMDG) : 3082 UN-No. (IATA) : 3082

### 14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

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### 14.3. Transport hazard class(es)

#### **ADG**

Transport hazard class(es) (ADG) 9

Danger labels (ADG)



**IMDG** 

Transport hazard class(es) (IMDG) 9

Danger labels (IMDG) 9



IATA

Transport hazard class(es) (IATA)

Danger labels (IATA)



14.4. Packing group

Packing group (ADG) : III - Substances presenting low danger

Packing group (IMDG) : 111 Packing group (IATA) : III

14.5. Environmental hazards

Marine pollutant : Yes : Yes Dangerous for the environment

Other information : No supplementary information available

14.6. Special precautions for user

Specific storage requirement : No data available Shock sensitivity No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

UN-No. (ADG) : 3082

Special provision (ADG) : 274, 331, 335, 375, AU01

Limited quantities (ADG) : 51 Excepted quantities (ADG) : E1

: P001, IBC03, LP01 Packing instructions (ADG)

: PP1 Special packing provisions (ADG) Portable tank and bulk container instructions (ADG) : T4 Portable tank and bulk container special provisions : TP1, TP29

(ADG)

Transport by sea

UN-No. (IMDG) 3082

Transport regulations (IMDG) : Transport in accordance with section 2.3.2.5 of the IMDG (viscous substance) may be

applied

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Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001 Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29

: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Fire)

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

Air transport

UN-No. (IATA) 3082 PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) 30kgG PCA packing instructions (IATA) 964 PCA max net quantity (IATA) 450L CAO packing instructions (IATA) 964 CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) 9L

#### 14.8. Hazchem or Emergency Action Code

Hazchem Code : \* 3Z

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations specific for the product in question

#### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS : All the chemicals contained in this product are listed introductions

Inventory) status

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Labelling requirements for SUSMP do not apply to a poison that is packed and sold solely

> for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with the Safe Work Australia "Code of Practice" for workplace substances.

#### 15.2. International agreements

No additional information available

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### **SECTION 16: Other information**

Abbreviations and acronyms

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Other information

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

**DOT - Department of Transport** 

TDG - Transportation of Dangerous Goods

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

GHS - Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

IARC - International Agency for Research on Cancer vPvB - Very Persistent and Very Bioaccumulative

PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

CAS - CAS (Chemical Abstracts Service) number

IBC-Code - International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk ATE - Acute Toxicity Estimate

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

BCF - Bioconcentration factor

MARPOL 73/78 - MARPOL 73/78: International Convention for the Prevention of Pollution From Ships

ADG - Transport of Australian Dangerous Goods

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: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the

product(s) as defined by the legal warranty regulations.

Classification	
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Full text of H-statements		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H411	Toxic to aquatic life with long lasting effects	

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Full text of H-statements	
H412	Harmful to aquatic life with long lasting effects

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 therefore not be construed as guaranteeing any specific property of the product.