SAFETY DATA SHEET
TRAFFICGUARD TOP COAT BASE

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

1.1. Product identifier

Product name TRAFFICGUARD TOP COAT BASE

Product number 2502100AE1, 2502320AE1, 2504702AE1, 2504709AE1, 2504712AE1, 2504714AE1

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

Identified uses Base component of Epoxy Polyurethane based Hard wearing, skid resistant,flexible Top Coat for Traffiguard System

1.3. Details of the supplier of the safety data sheet

Supplier

Al Gurg Fosroc LLC
PO Box 657
Dubai
United Arab Emirates
+ 971 4 2858606

1.4. Emergency telephone number

Emergency telephone +97142039699 (08:00 to 16:30) // +971506258232 (16:30 to 08:00)GMT+4

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

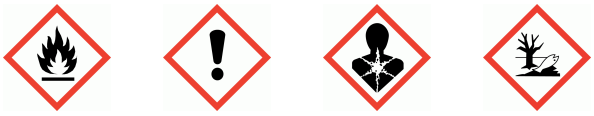
Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of 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. P501 Dispose of contents/ container in accordance with national regulations.
Contains	HYDROCARBONS, C9, aromatics, TITANIUM DIOXIDE, EPOXY RESIN (Type A) (Number average MW <= 700)
Supplementary precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/ attention. P312 Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS, C9, aromatics **10-30%**

CAS number: 64742-95-6	EC number: 918-668-5	REACH registration number: 01-2119455851-35-0000

Classification
Flam. Liq. 3 - H226
STOT SE 3 - H335, H336
Aquatic Chronic 2 - H411

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TITANIUM DIOXIDE		**10-30%**
CAS number: 13463-67-7	EC number: 236-675-5	

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Acute Tox. 4 - H332 Carc. 2 - H351	-

EPOXY RESIN (Type A) (Number average MW <= 700)		**10-30%**
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01-2119456619-26-XXXX

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

1-METHOXY-2-PROPANOL		**5-10%**
CAS number: 107-98-2	EC number: 203-539-1	

Classification
Flam. Liq. 3 - H226
STOT SE 3 - H336

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation May cause irritation.

Ingestion May cause discomfort if swallowed.

Skin contact May cause irritation.

Eye contact The product is irritating to eyes and skin.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCARBONS, C9, aromatics

Long-term exposure limit (8-hour TWA): WEL 19 ppm

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³

1-METHOXY-2-PROPANOL

Sk

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

Sk = Can be absorbed through the skin.
WEL = Workplace Exposure Limit

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Ingredient comments WEL = Workplace Exposure Limits

HYDROCARBONS, C9, aromatics (CAS: 64742-95-6)

DNEL
Professional - Dermal; systemic effects: 25 mg/kg/day
Professional - Inhalation; systemic effects: 150 mg/m³
Consumer - Oral; systemic effects: 11 mg/kg/day
Consumer - Inhalation; systemic effects: 32 mg/m³
Consumer - Dermal; systemic effects: 11 mg/kg/day

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL
Industry - Inhalation; Long term local effects: 10 mg/m³
Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC
- Fresh water; >1 mg/l
- Sediment (Freshwater); >=1000 mg/kg
- marine water; 0.127 mg/l
- Sediment (Marinewater); >= 100 mg/kg
- Soil; 100 mg/kg
- STP; 100 mg/kg

EPOXY RESIN (Type A) (Number average MW <= 700) (CAS: 25068-38-6)

DNEL
Workers - Inhalation; Short term systemic effects: 12.25 mg/m³
Workers - Inhalation; Long term systemic effects: 12.25 mg/m³

PNEC
- Fresh water; 0.006 mg/l

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL
Industry - Inhalation; Short term local effects: 553.5 mg/m³
Industry - Dermal; Long term systemic effects: 50.6 mg/kg/day
Industry - Inhalation; Long term systemic effects: 369 mg/m³

PNEC
- Fresh water; 10 mg/l
- marine water; 1 mg/l
- Intermittent release; 100 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Neoprene gloves are recommended.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact.

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Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.
Respiratory protection	Use an approved air purifying respirator with replaceable filter cartage comply with EN 140and filter EN 141: Organic Vapour cartridge type A1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Various colours.
Odour	Mild.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	27°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	Not applicable.
Relative density	1.39 @ 20°C
Bulk density	Not determined.
Solubility(ies)	partially soluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	275 Poise @ 20°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No data available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 21.04

Inhalation Irritating to respiratory system.

Ingestion May cause stomach pain or vomiting.

Skin contact May cause sensitisation by skin contact. Irritating to skin.

Eye contact Irritating to eyes.

Toxicological information on ingredients.

HYDROCARBONS, C9, aromatics

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 3,592.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 3,160.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l) 6.2

Species Rat

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ATE inhalation (vapours mg/l)	6.2

TITANIUM DIOXIDE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	6.82
Species	Rat
ATE inhalation (dusts/mists mg/l)	3.43

Skin corrosion/irritation

Animal data	Not irritating.

Skin sensitisation

Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

EPOXY RESIN (Type A) (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit
ATE dermal (mg/kg)	20,000.0

Skin corrosion/irritation

Animal data	Rabbit Moderately irritating.

Skin sensitisation

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Skin sensitisation May cause sensitisation by skin contact.

1-METHOXY-2-PROPANOL

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 11700 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} 13000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 10000 ppm, Inhalation, Rat

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity May cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

HYDROCARBONS, C9, aromatics

Acute aquatic toxicity

Acute toxicity - fish LL50, 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EL50, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOELR, 72 hours: 1 mg/l, Selenastrum capricornutum
Estimated value.

TITANIUM DIOXIDE

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: >10000 mg/l mg/l, Fish

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: >100 mg/l mg/l, Daphnia magna

EPOXY RESIN (Type A) (Number average MW <= 700)

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe)
LC_{50}, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC50, 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)

1-METHOXY-2-PROPANOL

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: 6812 mg/l, Leuciscus idus (Golden orfe)

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Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: >21000 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

HYDROCARBONS, C9, aromatics

Biodegradation Water - Degradation (%) 78: 28 days
The substance is readily biodegradable.

EPOXY RESIN (Type A) (Number average MW <= 700)

Persistence and degradability The product is not readily biodegradable.

1-METHOXY-2-PROPANOL

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Not determined.

Ecological information on ingredients.

TITANIUM DIOXIDE

Bioaccumulative potential The product is not bioaccumulating.

EPOXY RESIN (Type A) (Number average MW <= 700)

Partition coefficient log Pow: 3.242

1-METHOXY-2-PROPANOL

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility MOBILE Liquid.slightly soluble in water.

Ecological information on ingredients.

EPOXY RESIN (Type A) (Number average MW <= 700)

Mobility Potential for mobility is low.

Adsorption/desorption coefficient Water - Koc: 445 @ °C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Assessment not carried out but this product is believed not to be a PBT nor a vPvB.

Ecological information on ingredients.

HYDROCARBONS, C9, aromatics

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Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

EPOXY RESIN (Type A) (Number average MW <= 700)

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

1-METHOXY-2-PROPANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA, EPOXY RESIN (Type A) (Number average MW <= 700))

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA, EPOXY RESIN (Type A) (Number average MW <= 700), 4-NONYLPHENOL, Branched)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA, EPOXY RESIN (Type A) (Number average MW <= 700))

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA, EPOXY RESIN (Type A) (Number average MW <= 700))

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

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Transport labels

14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	Workplace Exposure Limits EH40. Respiratory protective equipment at work (HSG53).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	27/09/2018
Revision	3

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Supersedes date	16/11/2017
SDS number	24905
Hazard statements in full	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.