# SAFETY DATA SHE



# Corro-Coat PE Series 51 (D002)

### Section 1. Identification

: Corro-Coat PE Series 51 (D002) **Product name** 

**Product code** : 16351

**Product type** : Powder coating. Other means of : Not available. identification

Supplier's details : Jotun Powder Coatings U.A.E. Ltd. (LLC)

P.O. Box 51033

Dubai U.A.E

Phone: + 971 4 347 2515 Fax: +971 4 347 2815

Jotun Powder Coatings Saudi Arabia Co.Ltd

3078 - Industrial City 2, Ad Dammam, 34326-6419. Kingdom of Saudi Arabia.

Office: +966 13 812 1259 Ext.211

Fax: +966 13 812 1226

sdsjotun@jotun.no

**Emergency telephone** 

number

: JOTUN POWDER COATINGS U.A.E.Ltd. (LLC)

Phone: +971 4 347 2515

### Section 2. Hazards identification

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 3

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITISATION - Category 1

REPRODUCTIVE TOXICITY - Category 1B

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**GHS** label elements

**Hazard pictograms** 







Signal word : Danger.

**Hazard statements** : H316 - Causes mild skin irritation.

> H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H360 - May damage fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Date of issue/Date of revision : 29.09.2022 : 29.09.2022 Version: 1.01 Date of previous issue

# Section 2. Hazards identification

: P201 - Obtain special instructions before use. **Prevention** 

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

or hearing protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing dust.

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. Response

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

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Other hazards which do not : None known.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

**CAS** number : Not applicable.

**EC** number Mixture. **Product code** : 16351

Ingredient name	%	CAS number
Reaction mass of bis(2,3-epoxypropyl) terephthalate (CAS 7195-44-0) and tris(oxiranylmethyl) benzene- 1,2,4-tricarboxylate (CAS 7237-83-4)	≤5	-
2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-bis[2,4-bis (1,1-dimethylethyl)phenoxy]-	≤1	26741-53-7
2-ethyl-N,N-bis(2-ethylhexyl)hexylamine	≤0.3	1860-26-0
propylidynetrimethanol	≤0.3	77-99-6
tetradonium bromide	<0.1	1119-97-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version: 1.01 2/11

### Section 4. First aid measures

#### Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes mild skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

### See toxicological information (Section 11)

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version : 1.01 3/11

## Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : Fine dust clouds may form explosive mixtures with air.

: Decomposition products may include the following materials: sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and material for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible

: 29.09.2022 : 29.09.2022 Version : 1.01 Date of issue/Date of revision Date of previous issue

# Section 7. Handling and storage

#### Advice on general occupational hygiene

material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

None.

Dust Limit: 10 mg/m³ (TWA of total inhalable dust) and 4 mg/m³ (TWA of respirable)

#### Appropriate engineering controls

#### : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### **Skin protection Hand protection**

: There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Date of issue/Date of revision : 29.09.2022 : 29.09.2022 Version : 1.01 5/11 Date of previous issue

## Section 8. Exposure controls/personal protection

Wear suitable gloves tested to EN374.

Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber, neoprene, PVC

**Body protection** : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

If workers are exposed to concentrations above the exposure limit, they must use a Respiratory protection

respirator according to EN 140. If dust is generated and ventilation is inadequate,

use respirator that will protect against dust/mist. (FFP2 / N95).

# Section 9. Physical and chemical properties

#### **Appearance**

: Solid. Powder. **Physical state** 

Colour : Various Odour : Odourless.

**Odour threshold** : Not applicable. pН

: Not applicable. **Melting point (dust)** : 85 - 115 °C **Boiling point** : Not applicable. Flash point : Not applicable. **Evaporation rate** : Not applicable.

: Fine dust clouds may form explosive mixtures with air. Flammability (solid, gas)

**Lower explosion limit (dust)** : 30 g/m³ (EN 14034-3) Minimum ignition energy : 10 - 30 (EN 13821)

(mJ)

Vapour pressure : Not applicable. Vapour density : Not applicable. **Density** 1.2 to 1.9 g/cm<sup>3</sup>

Solubility : Insoluble in the following materials: cold water and hot water

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : > 400°C

**Decomposition temperature** : >230°C (>446°F) **Viscosity** : Not applicable.

### Section 10. Stability and reactivity

Reactivity Fine dust clouds may form explosive mixtures with air.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

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

**Conditions to avoid** : Avoid the creation of dust when handling and avoid all possible sources of ignition

(spark or flame). Take precautionary measures against electrostatic discharges.

To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Prevent dust accumulation.

Incompatible materials

**Hazardous decomposition** 

products

: No specific data.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Date of issue/Date of revision : 29.09.2022 : 29.09.2022 Version: 1.01 6/11 Date of previous issue

# Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
tetradonium bromide	LD50 Oral	Rat	3900 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane, 3,9-bis[2,4-bis (1,1-dimethylethyl)phenoxy]-	Skin - Severe irritant	Rabbit	-	0.5 Grams	-
tetradonium bromide	Eyes - Irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	,	Route of exposure	Target organs
tetradonium bromide	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Reaction mass of bis(2,3-epoxypropyl) terephthalate (CAS 7195-44-0) and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate (CAS 7237-83-4)	Category 2		reproductive organs
2-ethyl-N,N-bis(2-ethylhexyl)hexylamine	Category 2	-	-

#### **Aspiration hazard**

Not available.

Information on likely routes : Not available.

of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes mild skin irritation. May cause an allergic skin reaction.

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version : 1.01 7/11

Corro-Coat PE Series 51 (D002)

# Section 11. Toxicological information

**Ingestion**: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.Mutagenicity : No known significant effects or critical hazards.

**Teratogenicity**: May damage the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : May damage fertility.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	11508.13 mg/kg

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version : 1.01 8/11

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane, 3,9-bis[2,4-bis (1,1-dimethylethyl)phenoxy]-	Acute EC10 15.4 mg/l	Algae	72 hours
	Acute EC50 97 mg/l	Algae	72 hours
	Acute LC50 70.7 mg/l	Fish	96 hours
	Chronic NOEC 0.1 mg/l	Daphnia	21 days
tetradonium bromide	Acute EC50 0.022 mg/l	Daphnia	48 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-ethyl-N,N-bis(2-ethylhexyl) hexylamine	10.131	-	high
	-0.47 -	<1 444 to 677	low high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version : 1.01 9/11

Corro-Coat PE Series 51 (D002)

# **Section 14. Transport information**

Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

### Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

### Section 16. Other information

**History** 

Date of printing : 29.09.2022 Date of issue/Date of : 29.09.2022

revision

Date of previous issue : 29.09.2022

Version : 1.01

: ATE = Acute Toxicity Estimate Key to abbreviations

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

 Not available. References

▼ Indicates information that has changed from previously issued version.

Notice to reader

Date of issue/Date of revision : 29.09.2022 : 29.09.2022 Version : 1.01 10/11 Date of previous issue

Corro-Coat PE Series 51 (D002)

# Section 16. Other information

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

Date of issue/Date of revision : 29.09.2022 Date of previous issue : 29.09.2022 Version : 1.01 11/11