#### Revision nr. **DECORA A&C PTE LTD** Dated 20/01/2022 First compilation Printed on 20/01/2022 Steel Art Page n. 1/14

# Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code:

Product name Steel Art

Chemical name and synonym modified acrylic resins

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

Intended use Thick Levelling.

# 1.3. Details of the supplier of the safety data sheet

Name Decora A&C Pte Ltd Full address 51 Ubi Avenue 1, #05-19 District and Country 408933 Singapore

> Tel. +65 6858 1778 Fax +65 6858 5214 info@decora-art.com

responsible for the Safety Data Sheet Product distribution by:

Decora A&C Pte Ltd

#### 1.4. Emergency telephone number

e-mail address of the competent person

For urgent inquiries refer to +65 6858 1778

# **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, acute toxicity, H400 Very toxic to aquatic life.

category 1

Hazardous to the aquatic environment, chronic toxicity, H410 Very toxic to aquatic life with long lasting effects.

category 1

# 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

# **DECORA A&C PTE LTD**

Revision nr.

Dated 20/01/2022

First compilation

Printed on 20/01/2022
Page n. 2/14

Steel Art

**Safety Data Sheet** 

According to Annex II to REACH - Regulation 2015/830

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H410** Very toxic to aquatic life with long lasting effects.

EUH208 Contains:

May produce an allergic reaction.

Precautionary statements:

P501 Dispose of contents / container to . . . P273 Avoid release to the environment.

P391 Collect spillage.

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

ZINC POWDER - ZINC DUST

CAS 7440-66-6 50 ≤ x < 54 Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10

EC 231-175-3

INDEX 030-001-01-9

CAS 126-86-3 0,1 ≤ x < 0,15 Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 204-809-1

INDEX -

Reg. no. 01-2119954390-39

**ETHANEDIOL** 

CAS 107-21-1  $0.1 \le x < 0.15$  Acute Tox. 4 H302

EC 203-473-3 INDEX 603-027-00-1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

	DECORA A&C PTE LTD	Revision nr.
		Dated 20/01/2022
		First compilation
	Steel Art	Printed on 20/01/2022
	Otool Air	Page n. 3/14
Safety Data Sheet	According to Annex II to REACH - Regulation 2015/830	•

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary: INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention. INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious person. EYES and SKIN: Wash with plenty of water. In the event of persistent irritation, get medical advice/attention.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6. Accidental release measures**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

# 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

	DECORA A&C PTE LTD	Revision nr.
		Dated 20/01/2022
		First compilation
	Steel Art	Printed on 20/01/2022
	3.0017.11	Page n. 4/14
Safety Data Sheet	According to Annex II to REACH - Regulation 2015/830	

# 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Wash hands after use.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

#### 7.3. Specific end use(s)

Information not available

# **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

Regulatory References:

Decreto Legislativo 9 Aprile 2008, n.81

GBR United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018) EU

Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. OEL EU

TLV-ACGIH **ACGIH 2020** 

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,519	mg/l	
Normal value in marine water	0,052	mg/l	
Normal value for fresh water sediment	2,96	mg/kg/d	
Normal value for marine water sediment	0,296	mg/kg/d	
Normal value for water, intermittent release	5,19	mg/l	
Normal value of STP microorganisms	100	mg/l	
Normal value for the terrestrial compartment	0,287	mg/kg/d	

Health - Derived no-effect level - DNEL / DMEL	
Effects on	Effects on
	autama

# **DECORA A&C PTE LTD**

Revision nr.

Dated 20/01/2022

First compilation

Printed on 20/01/2022

Page n. 5/14

# Steel Art

**Safety Data Sheet** 

According to Annex II to REACH - Regulation 2015/830

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		•	•	16 mg/kg bw/d	•	•	•	•
Inhalation	•	•	*	56 mg/m3	·	•	•	189 mg/m3
Skin				80 mg/kg bw/d				134 mg/kg bw/d

ETHANEDIOL Threshold Limit Val Type	TWA/8h	TWA/8h STEL/15min			Remarks / Observations		
	•	mg/m3	ppm	mg/m3	ppm		
VLEP	ITA	52	20	104	40	SKIN	
WEL	GBR	52	20	104	40	SKIN	-
OEL	EU	52	20	104	40	SKIN	
TLV-ACGIH	·	<del>.</del>	25	·	50	· · · · · · · · · · · · · · · · · · ·	
TLV-ACGIH				10		INHAL	

#### 1,2-PROPANEDIOL **Threshold Limit Value** TWA/8h Type Country STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm WEL GBR 10 Particulates

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

# 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

# **EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

# RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of

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various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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

#### 9.1. Information on basic physical and chemical properties

Appearance viscous liquid Colour white Odour odourless Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point > 65 °C **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Not available Lower explosive limit Not available Upper explosive limit Vapour pressure Not available Vapour density Not available Relative density Not available Solubility soluble Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Not available Decomposition temperature 160 Sec. f4 Viscosity Explosive properties Not available Oxidising properties Not available

#### 9.2. Other information

Total solids (250°C / 482°F) 74,65 % VOC (Directive 2010/75/EC) : 5,97 %

	DECORA A&C PTE LTD	Revision nr.
		Dated 20/01/2022
		First compilation
	Steel Art	Printed on 20/01/2022
	Otool Ait	Page n. 7/14
Safety Data Sheet	According to Annex II to REACH - Regulation 2015/830	

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ETHANEDIOL

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

# 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ZINC POWDER - ZINC DUST

Risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with: alkaline hydroxides, bromine pentafluoride, calcium chloride, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with: strong acids, strong alkalis. May develop: hydrogen.

ETHANEDIOL

Risk of explosion on contact with: perchloric acid.May react dangerously with: chlorosulphuric acid,sodium hydroxide,sulphuric acid,phosphorus pentasulphide,chromium (III) oxide,chromyl chloride,potassium perchlorate,potassium dichromate,sodium peroxide,aluminium.Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

ETHANEDIOL

Avoid exposure to: sources of heat,naked flames.

# 10.5. Incompatible materials

ZINC POWDER - ZINC DUST

Incompatible with: water,acids,strong alkalis.

#### 10.6. Hazardous decomposition products

ETHANEDIOL

# DECORA A&C PTE LTD Revision nr. 1 Dated 20/01/2022 First compilation Printed on 20/01/2022 Page n. 8/14 Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

ETHANEDIOL

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

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

ETHANEDIOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

# ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

ETHANEDIOL

LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) 9530 mg/kg Rabbit

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

# DECORA A&C PTE LTD Revision nr. Dated 20/01/2022 First compilation Printed on 20/01/2022 Page n. 9/14 Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains:

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHANEDIOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

# REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 160 Sec. f4

# **SECTION 12. Ecological information**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity** 

ZINC POWDER - ZINC DUST

LC50 - for Fish 7,1 mg/l/96h Nothobranchius guentheri

EC50 - for Crustacea 2,8 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,015 mg/l/72h Pseudokirchneriella subcapitata

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12.2. Persistence and degradability

ZINC POWDER - ZINC DUST

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

**ETHANEDIOL** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

**ETHANEDIOL** 

Partition coefficient: n-octanol/water -1,36

12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

DECORA A&C PTE LTD	Revision nr.
DEGOTIA AGOT TE ETD	Dated 20/01/2022
	First compilation
Steel Art	Printed on 20/01/2022
	Page n. 11/14
Safety Data Sheet According to Annex II to REACH - Regulation 2015/830	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Transport hazard class(es)	
Not applicable	
14.4. Packing group	
The Facility group	
Not applicable	
14.5. Environmental hazards	
14.0. Environmental nazardo	
Not applicable	
14.6. Special precautions for user	
14.0. Openial productions for user	
Not applicable	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Information not relevant	
SECTION 15. Regulatory information	
SECTION 13. Regulatory information	
Reach 1907/2006	
For the components of the import Colorificio Atria has taken steps to require suppliers confirming their commitmen Manufacturers have issued a declaration of compliance.	to compliance nell'ttemperare reach.
For source components comunicatia, codesta company is configured as downstream without registration obligations	
All suppliers comply reach fulfillment.	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/EC: E1	

# **DECORA A&C PTE LTD**

Revision nr.

Dated 20/01/2022 First compilation

Printed on 20/01/2022

Page n. 12/14

# Steel Art

**Safety Data Sheet** 

According to Annex II to REACH - Regulation 2015/830

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

**Product** 

Point

3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

# 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H302 Harmful if swallowed.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

#### Revision nr. DECORA A&C PTE LTD Dated 20/01/2022 First compilation Printed on 20/01/2022 Steel Art Page n. 13/14 According to Annex II to REACH - Regulation 2015/830 **Safety Data Sheet**

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

# GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
  Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

# Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

	DECORA A&C PTE LTD	Revision nr. Dated 20/01/2022 First compilation
	Steel Art	Printed on 20/01/2022
	Oteel Ait	Page n. 14/14
afety Data Sheet	According to Annex II to REACH - Regulation 2015/830	+
emical-physical properties are alth hazards: Product classifi	: Product classification derives from criteria established by the CLP	t 3, unless determined otherwise in Section 11.