



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Epoxy powder coatings EE series S03

Data editing: 04.05.2023

Revision: 06.07.2023

Page/pages: 1/11

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Epoxy powder coatings EE series S03

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

Relevant identified uses: Coating material for powder coating.

Uses advised against: Any other uses.

1.3. Details of the supplier of the safety data sheet

Producer: EKO-COLOR Sp. z o. o.

Address: Poland; PL 77-100 Bytów; 2 H. Sucharskiego Street

Telephone: +48 59 822 11 73

E-mail address of the person responsible for the SDS: msds@eko-color.pl

1.4. Emergency telephone number

112 (emergency call), 998 (fire brigade), 999 (ambulance)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC

Skin Sens. 1; H317

Eye Dam. 1; H318

Repr. 1B; H360FD

Aquatic Chronic 1; H410

Hazards to man: May cause an allergic skin reaction. Causes serious eye damage. May damage fertility. May damage the unborn child.

Hazards to environment: Very toxic to aquatic life with long lasting effects.

Hazard from physical and chemical properties: Does not meet the criteria of classification.

In section 16 stated the meaning of H-phrases and symbols.

2.2. Label elements

Label accordance with Regulation 1272/2008/EC (CLP)

Hazard pictograms, signal words:



Danger



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Hazard statements:

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H360FD - May damage fertility. May damage the unborn child.

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

Precautionary statements:

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust.

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.

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

P405 - Store locked up.

P501 - Dispose of contents/container to disposal containers.

The names of hazardous ingredients on the label: Bisphenol A, 2-methylimidazole.

For professional use only.

2.3. Other hazards

No information on meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

If dispersed may form explosive dust-air mixture.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Contains:

Aluminium oxides [CAS: 1344-28-1, EC: 215-691-6, the registration number: 01-2119529248-35-0021] and Calcium carbonate [CAS: 1317-65-3] - a substance that has a specified value for the highest concentration limit in the working environment at the national level.

Substance name:	Bisphenol A*, **
Concentration [%]:	<6
CAS Number:	80-05-7
EC Number:	201-245-8
Index Number:	604-030-00-0
Classification 1272/2008/EC:	Repr. 1B; H360F STOT SE 3; H335 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 M=1



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	Aquatic Chronic 1; H410 M=10
The registration number:	01-2119457856-23-XXXX
Substance name:	2-methylimidazole
Concentration [%]:	<0.5
CAS Number:	693-98-1
EC Number:	211-765-7
Index Number:	613-330-00-0
Classification 1272/2008/EC:	Repr. 1B; H360Df Acute Tox. 4; H302*** Skin Corr. 1C; H314*** Eye Dam. 1; H318*** Carc. 2; H351
The registration number:	01-2119980041-46-XXXX

*ED substance (*Endocrine disruption*).

**SVHC substance on the ECHA candidate list.

***Additional manufacturer classification.

In section 16 stated the meaning of H-phrases and symbols.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air and keep rested. IF exposed or concerned: Get medical advice/attention.

Skin contact: Take off contaminated clothing and wash it before reuse. Wash contaminated skin with plenty of water and mild soap. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Immediately call a POISON CENTRE/doctor.

Ingestion: Do NOT induce vomiting. Rinse mouth with water, give plenty of water to drink. Seek medical advice.

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

May damage fertility. May damage the unborn child.

Inhalation: In case of inhalation of high concentrations of dust products may cause respiratory irritation.

Skin contact: May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May cause mild irritation of the mouth, throat and downstream sections of the digestive system.

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

Remove affected person from the contaminated by the product environment. In the event of health problems, consult your doctor or the center of toxicological concern. Provide the information contained in the SDS. If unconscious, do not give anything by mouth.



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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Adjust extinguishing agents according to the materials in the environment.

Unsuitable extinguishing media: Not specified.

5.2. Special hazards arising from the substance or mixture

In case of combustion(fire) hazardous products may be formed: carbon oxide and dense black smoke. Avoid inhalation of combustion products, because they may pose a health risk. May form explosive dust-air mixture if dispersed.

5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Protect drains, surface waters and soil from pollution.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Access of non-emergency personnel to the area of accident should be restricted until the completion of the disposal of the product. Wear appropriate personal protective equipment. Remove any potential ignition source. Avoid contact with eyes and skin.

For emergency responders: Wear appropriate personal protective equipment. Remove any potential ignition source. Provide adequate ventilation. Avoid contact with eyes and skin.

6.2. Environmental precautions

Secure the gullies. Do not allow to contaminate ground. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services.

6.3. Methods and material for containment and cleaning up

Secure the damaged packaging. Collect mechanically, avoiding dust formation (e.g., using a wet broom). Collected product put in a substitute container and refer to the destruction in accordance with applicable regulations.

6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.



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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Apply general industrial hygiene regulations: do not eat, drink, smoke or take drugs at work. Wash your hands and face before break and after working with the product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with eyes and prolonged contact with skin. Avoid inhalation of dust. Provide sufficient ventilation in the workplace. Obtain special instructions before use.

7.2. Conditions for safe storage, including any incompatibilities

Keep in properly labeled, factory, sealed, containers, with a label which complies with current regulations. Store in a dry place at 5 °C - 25 °C. Store locked up. Keep away from direct sunlight and sources of ignition. No smoking in the warehouse and do not use open flame.

7.3. Specific end use(s)

Coating material for powder coating.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Substance name	TWA	STEL	BLV
Dust	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)	-	-
Aluminium oxides [CAS: 1344-28-1]	10 mg/m ³ (inhalable fraction) 4 mg/m ³ (respirable fraction)	-	-
Calcium carbonate [CAS: 1317-65-3]	10 mg/m ³ (total inhalable) 4 mg/m ³ (respirable fraction)	-	-
Bisphenol A [CAS: 80-05-7]	2 mg/m ³	-	-

Legal basis: Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values. EH40/2005 Workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.

Monitoring procedures: Use methods described in European Standards.



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8.2. Exposure controls

Mandatory general regulations on occupational health. Do not allow the crossing of the environment, the workplace concentration limits for hazardous constituents. After work, wash and clean the surface of the body and clothing. Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash it before reuse. Provide adequate ventilation in the workplace.

Eye/face protection: Wear suitable protective glasses or mask accordance with EN 166.

Skin Protection: Wear suitable protective gloves made with fabric impermeable dust (e.g.: latex) in accordance with EN 374 and suitable protective clothes.

Respiratory protection: Provide adequate ventilation. In case of inadequate ventilation, use individual appropriate respiratory protection e.g. dust mask with filter P2.

Thermal Hazards: Not required.

The personal protective equipment used should meet the requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment. The employer must provide personal protective equipment appropriate to the type of work and in accordance with all requirements, including maintenance and cleaning.

Concentrations of hazardous substances in the workplace should be monitored in accordance with acknowledged test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Environmental exposure controls: The large amount of product should not be allowed to penetrate through the ground water, sewage, waste water or soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Powder
Colour:	Complies with specifications
Odour:	Odorless
Melting point/freezing point:	Not specified
Boiling point or initial boiling point and boiling range:	Not applicable
Flammability:	Not applicable
Lower and upper explosion limit:	Lower explosive limit: 40 g/m ³ - 70 g/m ³ (PN-EN 14034-3+A1:2011) Upper explosive limit: Not applicable
Flash point:	Not specified
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not specified
pH:	Not applicable
Kinematic viscosity:	Not applicable
Solubility:	Insoluble in water
Partition coefficient n-octanol/water	



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(log value):	Not applicable
Vapour pressure:	Not applicable
Density and/or relative density:	Density: 1.2 g/cm ³ – 1.8 g/cm ³
Relative vapour density:	Not applicable
Particle characteristics:	Complies with specifications

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not specified.

9.2.2. Other safety characteristics

Not specified.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of storage.

10.3. Possibility of hazardous reactions

Not specified.

10.4. Conditions to avoid

Keep away from direct sunlight and sources of ignition.

10.5. Incompatible materials

Not specified.

10.6. Hazardous decomposition products

None under normal conditions of use and storage.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Bisphenol A [CAS: 80-05-7]

LD₅₀ (oral, rat) >2000 mg/kg b.w.

LD₅₀ (skin, rabbit) 3000 mg/kg b.w.

2-methylimidazole [CAS: 693-98-1]

LD₅₀ (oral, rat) 1190 mg/kg b.w.

LD₅₀ (skin, rabbit) >2000 mg/kg b.w. (OECD 402)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye damage.

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: May damage fertility. May damage the unborn child.



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STOT - single exposure: Based on available data, the classification criteria are not met.

STOT - repeated exposure: Based on available data, the classification criteria are not met.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not applicable.

11.2.2. Other information

May damage fertility. May damage the unborn child.

Inhalation: In case of inhalation of high concentrations of dust products may cause respiratory irritation.

Skin contact: May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May cause mild irritation of the mouth, throat and downstream sections of the digestive system.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Bisphenol A [CAS: 80-05-7]

Toxicity to fish:

LC₅₀ (*Pimephales promelas*) 4.6 mg/l/96 h

Toxicity to aquatic invertebrates:

EC₅₀ (*Daphnia magna*) 10.2 mg/l/48 h

Toxicity to algae:

EC₅₀ (*Skeletonema costatum*) 1.1 mg/l/96 h

2-methylimidazole [CAS: 693-98-1]

Toxicity to fish:

LC₅₀ (*Pimephales promelas*) 286 mg/l/96 h

12.2. Persistence and degradability

Not specified.

12.3. Bioaccumulative potential

Not specified.

12.4. Mobility in soil

Insoluble in water, not mobile in soil.

12.5. Results of PBT and vPvB assessment

Not specified.

12.6. Endocrine disrupting properties

Not specified.

12.7. Other adverse effects

Not specified.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

During removal of waste comply with the regional/national laws.

Community legislation:

Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

Disposal methods for the product: Don't introduce into the environment. Dispose of in properly labeled hazardous waste containers to an authorized company. Dispose of uncleaned packaging as hazardous waste.

Disposal methods for used packing: Dispose of packaging as waste; deliver for disposal or liquidation to an authorized company.

SECTION 14: TRANSPORT INFORMATION

	ADR	RID	ADN	IMDG	ICAO TI
14.1. UN number or ID number			Not specified		
14.2. UN proper shipping name			Not specified		
14.3. Transport hazard class(es)			Not specified		
14.4. Packing group			Not specified		
14.5. Environmental hazards			<u>Very toxic to aquatic life with long lasting effects.</u>		
14.6. Special precautions for user			During cargo handling use personal protective equipment - see Section 8.		
14.7. Maritime transport in bulk according to IMO instruments			Not specified		

SECTION 15: REGULATORY INFORMATION

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

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation



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(EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

15.2. Chemical safety assessment

A chemical safety assessment is not required for the mixture.

SECTION 16: OTHER INFORMATION

The full text of statements H under Sections 2 and 3:

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H360Df - May damage the unborn child. Suspected of damaging fertility.

H360F - May damage fertility.

H360FD - May damage fertility. May damage the unborn child.

H400 - Very toxic to aquatic life.

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

Key to abbreviations and acronyms:

Acute Tox. 4 - Acute toxicity (oral), Hazard Category 4.

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

ADR - The European Agreement on the International Carriage of Dangerous Goods by Road.

Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard, Category 1.

Aquatic Chronic 1 - Hazardous to the aquatic environment - Chronic Hazard, Category 1.

BLV - Biological Limit Value.

Carc. 2 - Carcinogenicity, Hazard Category 2.

EC₅₀ - Average effective concentration.

Eye Dam. 1 - Serious eye damage/eye irritation, Hazard Category 1.

ICAO TI - Technical instructions for the safe transport of hazardous materials by air.

IMDG - International Maritime Dangerous Goods Codex.

LC₅₀ - Median lethal concentration.



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LD₅₀ - Media lethal dose.

Repr. 1B - Reproductive toxicity, Hazard Category 1B.

RID - The Regulation concerning the International Carriage of Dangerous Goods by Rail.

Skin Corr. 1B - Skin corrosion/irritation, Hazard Category 1, Sub-Categories 1B.

Skin Sens. 1 - Sensitisation - Skin, hazard category 1.

STEL - Short-Term Exposure Limit.

STOT SE 3 - Specific target organ toxicity - Single exposure, Hazard Category 3, Respiratory tract irritation.

TWA - Time Weighted Average.

Training advice: Before use read the SDS.

Classification according to Regulation (EC) Nr. 1272/2008:

Skin Sens. 1; H317

Eye Dam. 1; H318

Repr. 1B; H360FD

Aquatic Chronic 1; H410

Classification procedure:

Calculation method

Calculation method

Calculation method

Calculation method

Sources of key data:

SDS of components of the mixture.

Information provided electronically by the producer.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.

Prepared by ISOTOP s.c. Consulting Company; www.isotop.pl; e-mail: reach@isotop.pl

SDS from 04.05.2023 (Version 1.0) has been revised in sections: 2.1, 2.2, 3.2, 5.2, 5.3, 6.1, 12.1, 14.5, 16. Changes have been underlined.

This SDS replaces and annuls all the previous versions.