SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **PYROCOAT ASX ablation coating**

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

1.1. Product identifier:

ASX-K Fire protection coating PYROCOAT

Article number / Type: 7202310 / ASX-K

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

Relevant identified uses: fire protection material. Use by professional workers. Consumer use.

Uses advised against: application other than the above.

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

Distributor Details:
OBO Bettermann Produktion Deutschland GmbH & Co. KG
Hüingser Ring 52, 58710 Menden (Sauerland), Germany
Tel.: +49 2373 890
Fax: +49 2373 89238
E-mail: info@obo.de

Responsible for SDS:
OBO Bettermann Produktion Deutschland GmbH & Co. KG
Hüingser Ring 52, 58710 Menden (Sauerland), Germany
Tel.: +49 2373 890
Fax: +49 2373 89238
E-mail: info@obo.de

1.4. Emergency telephone number

REACH Registration of Chemicals GmbH
Tel.: +49 (0)700 24112112 (OBO)
Tel.: +1 872 5888271 (OBO)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category:	Hazard statement:
Not classified.	-

2.2. Label elements

Product identification: Trade name: **Ablation coating PYROCOAT in a cartridge**

Hazardous components: -

GHS Pictogram: not required
Signal word: not required

Hazard statement:
not required

Supplemental hazard information:

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary statements – General:
-

Precautionary statements – Prevention:
-

Precautionary statements – Response:
-

Precautionary statements – Storage:
-

Precautionary statements – Disposal:
-

Other liabilities for labelling:
Tactile warning of danger and child-resistant fastening: not required.
Transport classification: see section 14.

2.3. Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.
The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] REACH Registr. Nr.: 01-2119489379- 17	236-675-5	13463-67-7	Carc. 2 (Note V., W., 10.)	H351 (inhalation)	≥ 3 – <5
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)*,** REACH Registr. Nr.: 01-2120764691-48	611-341-5	55965-84-9	Acute Tox. 3 Acute Tox. 2 Skin Corr. 1C Skin Sens. 1A Eye Dam. 1 Acute Tox. 2 Aquatic Acute 1 Aquatic Chronic 1	H301 H310 H314 H317 H318 H330 H400 (M=100) H410 (M=100) EUH071	<0.0015

*Specific concentration limit:
Skin Corr. 1C; H314: C ≥ 0,6 %; Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %;
Eye Dam. 1; H318: C ≥ 0,6 %; Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %;
Skin Sens. 1A; H317: C ≥ 0,0015 %

** Estimated acute toxicity values: ATE (dermal): 50 mg/kg; ATE (oral): 100 mg/kg;

Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.'

Note W: 'It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes, holding the eyelids open. In case of persistent irritation, get medical attention.

Ingestion: DO NOT induce vomiting. Get prompt medical attention.

Protection of first-aid person: No data.

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

May produce an allergic reaction.

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

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Dry chemical powder, foam, carbon dioxide, water spray.

Unsuitable extinguishing media:

According to the burning environment.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: the product is not combustible.

On burning, carbon dioxide, carbon monoxide and other toxic fumes / gases can be formed.

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

In case of fire, keep containers cool with water spray.
Collect contaminated firefighting water separately. It must not enter the sewage system.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.
Keep persons not involved in rescue at a distance.
Avoid contact with skin, clothing and eyes, inhalation of vapours.
Sufficient ventilation should be provided.

6.2. Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil
Notify relevant authority.

6.3. Methods and material for containment and cleaning up

Recover free liquid by pumping. Contain the rest or small quantities with non-combustible liquid-absorbent material (sand, non-combustible liquid binder). Place in properly labelled closed container. Dispose of according to local regulations.

6.4. Reference to other sections

Personal precautions: see section 8.
Waste treatment methods: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.
Adequate ventilation must be provided.
Avoid contact with clothing, skin and eyes. Avoid prolonged breathing of vapours.
Wash hands before breaks and at end of work.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Avoid splashing the product.
Handling temperature: no data.

7.2. Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.
Store in dry, cool well-ventilated place in original, closed containers. Keep away from direct sunshine, direct heat or ignition sources.
Keep away from food, drink and feed.
Storage temperature: protect from frost.

7.3. Specific end use(s)

Fire protection material. Use by professional workers. Consumer use.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters:

No applicable occupational exposure limits.

8.2. Exposure controls

Engineering control measures:
Adequate ventilation (general or local exhaust).

Personal protection:

(a)	Eye/face protection	Safety goggles (EN 166).
(b)	Skin protection	
	(i) Hand protection	Chemical resistant gloves (EN 374). Material: butyl rubber, nitrile rubber (NBR) Breakthrough time: >480 min. Layer thickness: ≥0.4 mm. Note: Manufacturer's directions for use and the conditions of application should be observed.
	(ii) Other	Protective clothing.
(c)	Respiratory protection	Under normal conditions not required. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended (filter type A2-P2).
(d)	Thermal hazards	No data.

Environmental exposure controls:
Do not discharge into drains/surface waters/groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Physical state:	viscous liquid

b)	Colour:	white or gray
c)	Odour:	odourless
d)	Melting point/freezing point (Pour point):	not available
e)	Boiling point or initial boiling point and boiling range:	≈ 100°C
f)	Flammability:	not combustible
g)	Lower and upper explosion limit:	not explosive
h)	Flash point:	not applicable
i)	Auto-ignition temperature:	not applicable
j)	Decomposition temperature:	not available
k)	pH (10% aqueous solution):	7 – 7.8
l)	Kinematic viscosity	
	at 40°C:	not available
	at 100°C:	not available
m)	Solubility	
	Solubility in water:	soluble
	Solubility in other solvents:	not available
n)	Partition coefficient n-octanol/water (log value):	not available
o)	Vapour pressure at 20°C:	not available
p)	Density and/or relative density at 20°C:	1.34 – 1.48 g/cm³
q)	Relative vapour density:	not available
r)	Particle characteristics:	not available

9.2. Other information

Oxidizing properties:	not oxidize
VOC:	<10%
Kinematic viscosity (at 20°C):	6000 – 40000 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity	Dangerous reactivity not known.
10.2. Chemical stability	No decomposition if stored and handled properly.
10.3. Possibility of hazardous reactions	Not known.
10.4. Conditions to avoid	Heat, direct sunlight, frost.
10.5. Incompatible materials	Strong acids. Strong bases.
10.6. Hazardous decomposition products	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

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.

Components:
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (CAS: 55965-84-9)

Oral:	ATE	100	mg/kg
Dermal:	ATE	50	mg/kg
Inhalation (gases):	ATE	100	ppmv/ 4 h
Inhalation (vapours):	ATE	0.5	mg/L/ 4 h
Inhalation (dust/fume):	ATE	0.05	mg/L/ 4 h

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
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:	Based on available data, the classification criteria are not met.
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
The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances, at a concentration of 0.1% or more.
12.6. Endocrine disrupting properties	The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

12.7. Other adverse effects	Large spills may be hazardous to the environment.
Water hazard class (German):	No data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.
Waste Identification Code: 08 01 20
Aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19.

Disposal must be in compliance with national and local regulations.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.
Waste Identification Code: 15 01 02
Plastic packaging.

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations.
It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14: Transport information

Land transport:

Road/ Railway	ADR/RID:	Not classified.
14.1. UN number or ID number:		Not classified.
14.2. UN proper shipping name:		Not classified.
14.3. Transport hazard class(es):		Not classified.
14.4. Packing group:		Not classified.
14.5. Environmental hazards:		Not classified.
14.6. Special precautions for user:		Not classified.
14.7. Maritime transport in bulk according to IMO instruments		Not applicable

Waterways:

Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
Air transport:	ICAO / IATA:	Not apply to the product.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: not classified.

15.2. Chemical safety assessment.
not available

SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.
The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

Not classified.

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.

H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Acute Tox. 3	Acute toxicity Category 3
Acute Tox. 2	Acute toxicity Category 2
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A	Respiratory/skin sensitization Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Carc. 2	Carcinogenicity Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number

ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LCx	Lethal Concentration x%
LDx	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version