



SAFETY DATA SHEET

279-2575

TBTO FREE ANTIFOULING

PREPARATION DATE: 03.07.2020

REVISION DATE: 03.07.2020/ Rev:00

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	279-2575
MANUFACTURER	DYO Boya Fabrikalari San ve Tic A.S. 10003 Sok. No.2 A.O.S.B Çiğli 35620 Izmir-Turkey www.dyo.com.tr okan.ergul@dyo.com.tr Tel:+902323280880 Faks:+902323768055
APPLICATION	Antifouling Paint
CONTACT PERSON	Okan Ergül
EMERGENCY TELEPHONE	+902323280880

2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLASSIFICATION (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Sens. 1 - H317 Skin Irrit. 2-H315 Eye Irrit 2-H319 Acute Tox. 4-H302

Environmental hazards Aquatic Chronic 1 - H410

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

2.2. Label elements

CONTAINS

Dicopper oxide, copper thiocynate, xylene, 4,5 dichlorine-2-octyl-3(2H)-izotiazol-3-on

LABEL IN ACCORDANCE WITH (EC) No. 1272/2008



SIGNAL WORD: Warning

HAZARD STATEMENTS

H226 Flammable liquid and vapour.

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects

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PRECAUTIONARY TATEMENTS

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice.

P337+P313 If eye irritation persists: Get medical advice

P391 Collect spillage

P501 Dispose of contents/container in accordance with national regulations

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No	EC No	%	Classification (EC 1272/2008)
Dicopper oxide	1317-39-1	215-270-7	25-30	Acute Tox. 4-H302 Aquatic Acute 1 - H400 Aquatic Chronic 1-H410
Copper thiocyanate	1111-67-7	214-183-1	1-5	Acute Tox. 4-H302 Acute Tox. 4 - H312 Aquatic Acute 1 - H400 Aquatic Chronic 1-H410 Acute Tox. 4 - H332
XYLENE	1330-20-7	215-535-7	25-30	Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332

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				Skin Irrit. 2 - H315
4,5 dichlorine-2-octyl-3(2H)-izotiazol-3-on	64359-81-5	264-843-8	0,5-1	Acute Tox. 4-H302 Acute Tox. 4 - H312 Acute Tox. 2 - H330 Skin Irrit.-1C-H314 Skin Sens. 1-H317 BHOT Tek Mrz. 3-H335 Aquatic Acute 1 - H400 Aquatic Chronic 1-H410
4-methyl pentane-2-on	108-10-1	203-550-1	1-5	Eye Irrit. 2 - H319 Flam.Liq 2-H225 Acute Tox. 4 - H332 STOT SE 3-H335
Iso butanol	78-83-1	201-148-0	1,5-2,5	Flam. Liq. 3 - H226 Skin Irrit.2-H315 Eye Irrit. 1-H318 BHOT Tek. Mrz.3-H335 BHOT Tek. Mrz.3-H336
Zinc oxide	1314-13-2	215-222-5	1-5	Aquatic Acute 1 - H400 Aquatic Chronic 1-H410
Epoxy resin	25068-38-6	500-033-5	0,5-1	Skin Sens. 1-H317 Skin irrit. 2-H315 Eye Irrit. 2-H319 Aquatic Chronic 2-H411
Fatty acids	162627-17-0	605-296-0	0,1-0,5	Skin Sens. 1-H317

The Full Text for all R-Phrases is Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION: Get medical attention if any discomfort continues

INHALATION: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

INGESTION: DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

SKIN CONTACT: Rinse the skin immediately with lots of water.

EYE CONTACT: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Extinguish with foam, carbon dioxide, dry powder or water fog.

PROTECTIVE MEASURES IN FIRE: Wear full protective clothing.



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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.

ENVIRONMENTAL PRECAUTIONS:

Collect and dispose of spillage as indicated in section 13.

METHODS FOR CLEANING UP

Refer to protective measures listed in section 7 and 8. Contain and collect spillages with non-combustible materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with water, avoid the use of solvents.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid eating, drinking and smoking when using the product. Avoid contact with skin and eyes.

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Avoid skin and eye contact.

Avoid inhalation of vapours and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection, see Section 8. Always keep in containers made of the same material as the supply container.

STORAGE PRECAUTIONS

Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Containers, which are opened should be properly resealed and kept upright to prevent leakage.

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL-15 min		Notes
XYLENE	WEL	50 ppm(Sk)	220 mg/m ³ (Sk)	100 ppm(Sk)	441 mg/m ³ (Sk)	
4-METHYL PENTANE-2-ON	WEL	50 ppm(Sk)	208 mg/m ³ (Sk)	100 ppm(Sk)	416 mg/m ³ (Sk)	
ISO-BUTANOL	WEL	50 ppm(Sk)	154 mg/m ³ (Sk)	75 ppm(Sk)	231 mg/m ³ (Sk)	

WEL =Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES UProvide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

HAND PROTECTION: Use protective gloves.

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EYE PROTECTION: Wear goggles/face shield.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE::	Liquid
COLOR:	Red Brown
ODOR:	Aromatic
FLASH POINT (°C):	>27
BOILING POINT(°C):	>130
DENSITY:	1.45-1.55 gr/cm ³ (20°C)

10 STABILITY AND REACTIVITY

STABILITY: Stable under normal temperature conditions and recommended use.

11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity - oral ATE oral (mg/kg) 2,857,143.0

Acute toxicity - dermal ATE dermal (mg/kg) 6,111.11

Acute toxicity - inhalation ATE inhalation (gases ppm) 22,500.0

ATE inhalation (vapours mg/l) 55.0

ATE inhalation (dusts/mists mg/l) 7,5

12 ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Only experts should be permitted to carry out disposal of this material.

14 TRANSPORT INFORMATION

14.1. UN number

4.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

UN No. (ADN) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT RELATED MATERIAL

Proper shipping name (IMDG) PAINT RELATED MATERIAL

Proper shipping name (ICAO) PAINT RELATED MATERIAL

Proper shipping name (ADN) PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class 3

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ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number (ADR/RID) 30

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV. List of substances subject to authorization. Substances of very high concern.

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Not applicable.

16 OTHER INFORMATIONS

GENERAL INFORMATION: The ambient temperature and the temperature of the surfaces to be treated should be higher than 5°C.

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DEFINITION OF REVISION: This is first SDS for this product.
SIGNATURE: Okan Ergül, R&D Specialist
REVISION DATE: 03.07.2020/ Rev:00
SDS NO: 279-2575

HAZARD STATEMENTS IN FULL

H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes serious 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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects.

DISCLAIMER

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with. The information contained in this material safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.