



## MATERIAL SAFETY DATA SHEET

**Product Name:** CRYSTAL WALL

**Revision Date:** 20.08.2024

**Revision No:** MSDS-CRYSTALWALL-01

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

#### 1.1. Identification of substance or preparation

Name	ROADCHEM – CRYSTAL WALL
Product Code	RDC-9016-25
Class	One Component Alkyd-Based Cold Road Marking Paint

#### 1.2. Company / undertaking identification

Registered company name	ROADCHEM RESİN BOYA VE MAKİNA LTD. ŞTİ.
Address	Ata Mahallesi Tralles Bulvari No:6Aj Efeler-AYDIN / TURKIYE
Telephone	+90 256 502 55 09
Emergency phone number	+90 533 133 07 01

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of material or mixture

In accordance with Regulation EC 1272/2008 (SEA/GHS) (AB):

Flam. Liq. 2 H225	Highly flammable liquid and vapour.
Acute Tox. 4 H312	Harmful in contact with skin.
Skin Irrit. 2 H315	Causes skin irritation.
Acute Tox. 4 H332	Harmful if inhaled.
Repr. 2 H361d	Suspected of damaging the unborn child.
Aquatic Chronic 3 H412	Harmful to aquatic life with long lasting effects.
STOT SE 2 H373	May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure

Labeling:	
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Warning Word:	<b>DANGEROUS</b>
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#### Hazard Statements:

H225	Highly flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

<b>P305+351+338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>P403</b>	Store in a well-ventilated place.
<b>P501</b>	Dispose of contents/container to [...] in accordance with local/regional/national/international regulation

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Hazardous substances present on their own:

Name	CAS	EC	Symbols	H* Phrases	%
Xylene	1330-20-7	215-535-7	Flam. Liq. 3 Acute Tox. 4 * Acute Tox. 4 * Skin Irrit. 2	H226 H332 H312 H315	15 <= X % < 35
Toluene	108-88-3	203-625-9	Flam. Liq. 2 Repr. 2 Asp. Tox. 1 STOT RE 2 * Skin Irrit. 2 STOT SE 3 Aquatic Chronic 3 H412	H225 H361d H304 H373 ** H315 H336 H412	10 <= X % < 25

Occupational exposure limit values, if available, are listed in section 8.

### 4. FIRST AID MEASURES

As a general rule, in case of doubt or symptoms persist, always call a doctor.

Never induce swallowing in an unconscious person.

#### In the event of exposure by inhalation:

If a large quantity is inhaled, move patient into the fresh air and keep him/her warm and still.

If not breathing, if breathing is irregular, or if airways are blocked, have a trained person administer artificial respiration or oxygen.

If the person is unconscious, place in the recovery position and call an ambulance.

#### In the event of splashes or contact with eyes:

Check and remove contact lenses. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

#### In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognized cleaner.

DO NOT use solvent or thinners.

If skin damage occurs at the contact site, consult a doctor or send the patient to the hospital.

#### In the event of swallowing:

In the event of swallowing, if the amount is small (no more than one mouthful) rinse the mouth with water and consult a doctor.

Keep still. DO NOT induce vomiting.

If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

## 5. FIRE – FIGHTING MEASURES

Chemical powders, carbondioxide and other extinguishing gas are suitable for small first.

### Suitable extinguishing media:

Special foams for polar liquid (known as alcohol resistant), powders, carbon dioxide

In the event of fire, use specifically suitable extinguishing agent.

### Extinguishing media which must not be used for safety reasons:

NEVER use water for extinguishing purposes.

A fire often produces a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Cool closed containers exposed to fire with water. Prevent an effluent of fire – fighting measures from entering drains or waterways.

### Special protective equipment for fire fighters:

Fire-fighting personal are to be equipped with autonomous insulating breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions:

On account of the organic solvents contained in the preparation eliminate the sources of ignition and ventilate premises.

Avoid inhaling the vapors.

Consult the safety measures listed under headings 7 and 8.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

### 6.2. Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains alert the relevant authorities in accordance with statutory procedures.

### 6.3. Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

Collect spilled material in specified containers in accordance with local legislation.

## 7. HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled. Avoid exposure to pregnant women and warn women of child-bearing age of possible risks.

### Handling:

Handle in well-ventilated areas.

The vapors are denser than air. They can spread along the ground and form explosive mixture with air.

Prevent the formation of flammable or explosive concentrations higher than the occupational exposure limits.

<b>Fire prevention:</b>
Prevent the accumulation of electrostatic charges with connections to earth.
The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes, clothes and make floors of conductive materials.
Use the product in premises where there are no naked flames or other sources of ignition, and there is protected electrical equipment.
Keep packages tightly and away from sources of heat, sparks and naked flames.
Do not use tools which may produce sparks. Do not smoke.
Prevent access by unauthorized personnel.
<b>Recommended equipment and procedure:</b>
For personal safety see section 8.
Observe precautions stated on label and also industrial safety regulations.
Avoid inhaling solvent vapors and spray-gun aerosols.
Avoid exposure – obtain special instructions before use.
Packages which have been opened must be reclosed carefully and stored in an upright position.
Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
In all cases, recover emissions at source.
Provide vapor extraction at the emission source and also general ventilation of the premises.
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent vapors in every case.
It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent vapors has fallen below the exposure limits.
<b>Prohibited equipment and procedure:</b>
Smoking, eating and drinking are prohibited in premises where the preparation is used.
Never open the packages under pressure.
<b>Storage:</b>
Keep the container tightly closed in a dry, well-ventilated place.
Keep away from all sources of ignition, heat and direct sunlight – do not smoke.
Store in its original packaging.

<b>8. EXPOSURE CONTROL / PERSONAL PROTECTION</b>
Use personal protection equipment in accordance with the regulation on the use of personal protective equipment in workplaces.
<b>Technical measures:</b>
Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.
Do not breathe vapors and particles. Wash the work clothes you use regularly.
If this ventilation is insufficient to maintain the concentration of vapors below the exposure limits, wear breathing apparatus.

**Exposure limit values:**

CAS	ppm	mg/ m <sup>3</sup>
1330-20-7	100	435
108-88-3	50	190

**Respiratory protection:**

Where workers encounter concentration higher than exposure limits, they must wear suitable, approved masks.

**Hand protection:**

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

Use suitable gloves before starting work. Glove type: Neoprene or nitrile.

**Eye and face protection:**

Use eye protectors designed to protect against liquid splashes.

Avoid eye and skin contact.

Keep eyewash drops in use areas.

**Skin protection:**

Wear suitable protective clothing.

Personnel should use anti-static clothing made from natural fibers or heat-resistant clothing made from synthetic fibers.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. General Information**

Physical state	Viscous Liquid
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**9.2. Important Health, Safety and Environmental Information**

PH of the substance or preparation	Not Specified
When a PH measure is possible, it has a value of	Not Specified
Boiling point / boiling range	Not Specified
Flash point interval	<= -4 °C (theoretical)
Vapor pressure	Below 110 kPa (1.1bar)
Density	> 1
Water solubility	Insoluble

**9.3. Other Information**

Melting point / melting range	Not Specified
Self-ignition temperature	Not Specified
Decomposition point / decomposition range	Not Specified

**10. STABILITY AND REACTIVITY**

When exposed to the high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide.

Stable under recommended storage conditions (See section 7).

## 11. TOXICOLOGICAL INFORMATION

### Akut Toxicity:

#### LD/LC50 - values (toxicological test values) important for classification

##### Toluene

Oral	LD50 - 5000 mg/kg (rat)
Dermal	LD50 - 12124 mg/kg (rabbit)
Inhalation	LC50/4h - 5320 mg/l (mouse)

##### Xylene

Oral	LD50 > 3.523 mg/kg
Inhalation	LC50 > 27.12 mg/l

### Toxic effects on human:

It is harmful if swallowed. May be irritating with eyes and skin contact and if inhaled.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

##### Toluene

Toxicity to fish:	Flow-through test LC50 - <i>Oncorhynchus kisutch</i> (coho salmon) - 5,5 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates:	EC50 - <i>Ceriodaphnia dubia</i> (water flea) - 3,78 mg/l - 48 h (US-EPA)
Toxicity to bacteria:	Static test EC50 - Bacteria - 84 mg/l - 24 h Remarks: (ECHA)

##### Xylene

Toxicity to fish:	Static test LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 2,60 mg/l - 96 h Remarks: (OECD Test Guide 203)
Toxicity to algae:	Static test EC50 - <i>Pseudokirchneriella subcapitata</i> - 4,36 mg/l - 73 h (OECD Test Guide 201)
Toxicity to bacteria:	Remarks: (ECHA)

### 12.2. Persistence and degradability

##### Toluene

Biodegradability:	Aerobic - Exposure time 20 d Result: 86 % - Readily biodegradable. Remarks: (IUCLID)
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##### Xylene

Biodegradability:	Aerobic - Exposure time 20 d Result: 98 % - Readily biodegradable. Remarks: (OECD Test Rehberi 301F)
Chemical Oxygen Demand (COD):	2.62 g/g Notes: (ECHA)
Theoretical oxygen demand:	3.17 g/g Remarks: (ECHA)
BOD/ThBOD ratio:	80 % Remarks: (ECHA)

### 12.3. Bioaccumulative Potential

##### Toluene

Bioaccumulation:	<i>Leuciscus idus</i> (Golden orfe) - 3 d - 0,05 mg/l(Toluol)
Bioconcentration factor (BCF):	90

##### Xylene

Bioaccumulation:	<i>Oncorhynchus mykiss</i> (rainbow trout) - 56 d at 10 °C - 1,3
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	mg/l(m-xylene)
<b>Bioconcentration factor (BCF):</b>	7,4 - 18,5 Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
<b>12.4. Mobility in soil</b>	
No data available	
<b>12.5. Results of PBT and vPvB Assessment</b>	
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
<b>12.6. Endocrine Disrupting Properties Product:</b>	
No data available	

<b>13. DISPOSAL CONSIDERATIONS</b>	
Do not pour into wastewater or waterways.	
<b>Product Waste:</b>	
Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Do not pollute the ground and water resources with waste, and do not throw waste into the environment.	
<b>Packaging Waste:</b>	
Empty the packaging completely.	
Give packaging waste to licensed organizations in accordance with the hazardous chemicals disposal regulations.	

<b>14. TRANSPORT INFORMATION</b>	
Always carry it upright and securely in closed packages. Inform anyone handling this product about what to do in case of accident or spillage.	
<b>UN:</b>	1263 - PAINT
<b>ADR/RID</b>	Class Code Pack.Gr. Label Ident. LQ Provis.
	3 F1 III 3 33 LQ7 163 640 650H
<b>IMDG</b>	Class Code Pack.Gr. LQ EMS Provis.
	3 III 5L F-E, S-E 163 223 944 955
<b>IATA</b>	Class Code Pack.Gr. Pass. Pass. Cargo Cargo Not
	3 III 309 60 L 310 220 L A3 A72
	3 III Y309 10 L - - -

<b>15. REGULATORY INFORMATION</b>	
The substance or mixture Safety, health and environmental legislation ;	
This Safety Data Sheet is prepared for according to Dangerous Substances and Mixtures Safety Data Sheets regulation.	
Labelling according to "Regulation on Classification, Packaging and Labelling of Substances and Mixtures (RG: 11.12.2013, 28848 Annex.) or/and labelling according to "Regulation on Classification, Packaging and Labelling of Substances and Mixtures (RG: 10.12.2020, 31330 Annex.).	

## 16. OTHER INFORMATION

The information provided in this Safety Data Sheet should be evaluated in line with the instructions given by the manufacturer regarding the use of the product. The risks that may arise from using this product for other purposes, mixing it with other substances or using it in other processes belong to the user.

<b>H225</b>	Highly flammable liquid and vapour.
<b>H312</b>	Harmful in contact with skin.
<b>H315</b>	Causes skin irritation.
<b>H332</b>	Harmful if inhaled.
<b>H361d</b>	Suspected of damaging the unborn child.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if it is conclusively proven that no other routes of exposure cause the hazard.

**Prepared by person(s) who is certified according to the regulation.**

**Contact e-posta:** nezihsaglik@gmail.com

**Certification number:** TÜV/11.174.06

**Effective date:** 05.12.2022

**Expiry date :** 05.12.2027

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Changes compared to the previous version are marked before the section number!

