

SAFETY DATA SHEET

ZINC SPRAY

Product Name: ZINC SPRAY

GBF Form No: M-00120

Preparation Date: 22.12.2025

Revision Date/Number: 00/00

According to Commission Regulation (EU) 2020/878 as amended

1. Description of the substance/mixture and of the company/distributor;

1.1. The identity of the substance/mixture;

Product form : Mixture
Trade Name : Zinc Spray
EC Number : Unknown
CAS Number : Unknown

1.2. Identified uses of the substance or mixture and uses advised against;

It is used on pure, iron and steel surfaces where coating is not desired.

1.3. Information about the supplier of the Safety Data Sheet;

Manufacturer : MAXRAY Kimya San. ve Tic. Ltd. Şti.
Address : Mimar Sinan Mah. Üsküdar Cad. YEDPA No:1 Cad. Inner door No:2
ATAŞEHİR/İSTANBUL
Phone : +90 850 307 04 47
Email : info@maxray.com.tr
Contact Person : Nurullah Düzgün
Product Code : MX-77135
Product Type : Spray Paint

1.4. Emergency phone number;

Emergency phone number : 114 (Poison Control Center / For local calls only.)

2. Hazard identification;

2.1. Classification of substances and mixtures;

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

Flammable Aerosol, Hazard Category 2	H223
Pressure Vessel	H229
Aspiration Toxicity, Hazard Category 1	H304
Skin irritation, Hazard Category 2	H315
BHOT Single Mrz, Hazard Category 3 (Dizziness)	H336
Reproductive System Toxic, Hazard Category 2	H361
BHOT Repeated Exposure, Hazard Category 2	H373
Aquatic Chronic Pest, Category 3	H412

The full text of the H statements; see Section 16.

2.2. Label elements;

Classification of the mixture in accordance with Regulation (EC) No 1272/2008



Hazard Label (SEA) :

GHS02

GHS07

GHS08

Warning word (SEA) : Danger

Hazard Statements (SEA) :



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H223 - Flammable aerosol.

H229 - Pressure vessel: May crack if heated.

H304 - Fatal if inhaled or swallowed.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of causing harm to the unborn child or impairing fertility.

H373 - May cause organ damage through prolonged or repeated exposure.

H412 - Long-lasting harmful effects in aquatic environment.

Precautionary Statements (SEA) :

P210 Keep away from heat/sparks/flames/hot surfaces. - No smoking.

P211 - Do not spray towards flames or other sources of ignition.

P251 - Pressure vessel: Do not puncture or burn, even after use.

P261 - Avoid inhaling dust/fumes/gas/mist/vapors/spray.

P264 - Wash hands thoroughly with water after handling.

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

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

P304+P340 - IF INHALED: Remove the affected person to fresh air and ensure they are in a position where they can breathe easily.

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

P337+P313 - If eye irritation persists: Seek medical advice/attention.

P312 - If you feel unwell, call the NATIONAL POISON CONTROL CENTER on 114 or your doctor/physician.

P405 - Keep in a locked area.

P403+P233 - Store in a well-ventilated area. Keep container tightly closed.

P410+P403 - Protect from sunlight. Store in a well-ventilated area.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122F.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations (as specified). Indicate whether this applies to the contents, container, or both, as instructed by the manufacturer/supplier or competent authority.

2.3. Other damages;

It does not contain PBT or vPvB substances.

3. Information about its composition/ingredients;

3.1. Items;

Not applicable.

3.2. Mixtures

Name of the Substance	CAS Number	EC Number	%	Classification in accordance with the "Regulation on the Classification, Labelling and Packaging of Substances and Mixtures" (SEA), published in the Official Gazette dated December 11, 2013, and	Pictograms

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				numbered 28848 (mükerrer).	
Polymer Mixture	-	-	10-20	Unclassified.	
Toluene	108-88-3	203-625-9	10-25	Flame. Liquid 2, H225 Urm. Sis. Tok.2,H361d Asp.Tok. 1, H304 BHOT Tek. MRZ.2, H373 Volume 2, H315 BHOT TEK MRZ.3,H336	GHS02 GHS07 GHS08 Dangerous
Zinc powder-zinc dust (stabilized)	7440-66-6	231-175-3	<1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	GHS09
Aluminum paste	-	-	<2	Unclassified.	-
Dimethyl ether	115-10-6	204-065-8	20-55	Flame Gas.1, H220 Liquefied Gas, H280	GHS02 GHS04 Dangerous

The full text of the H statements: see Section 16

4. First aid measures;

4.1.Explanation of first aid measures;

General Information	Do not give anything by mouth to an unconscious victim. Seek medical attention if symptoms appear. Highly flammable. Use adequate respiratory protection equipment.
Inhalation	Remove the patient from the danger zone to fresh air and seek medical assistance. Keep the patient warm and allow them to rest. Administer oxygen if necessary. Perform cardiopulmonary resuscitation (CPR) if cardiac arrest occurs.
Contact with skin	Remove all contaminated clothing and shoes. Wash the affected area with soap and water for 15 minutes. Apply cream to the skin. Seek medical attention if irritation occurs.
Eye contact	Immediately lift your eyelids and rinse thoroughly with plenty of water for 15 minutes. Remove contact lenses if possible. Continue rinsing. Seek medical attention if you experience pain, burning, or photophobia.
If swallowed	Do not induce vomiting. If vomiting occurs, keep the head low to prevent aspiration into the lungs. Rinse the mouth. Give water to drink. Do not give milk or alcohol. Do not give anything by mouth to an unconscious person. Take to the hospital immediately.

4.2. Significant symptoms and effects, both immediate and delayed.

Inhalation	: Unknown
Skin contact	: Skin irritation.
Eye contact	: Unknown
If swallowed	: Causes serious lung damage.

4.3.The first signs that require medical intervention and specialized treatment.

Treat symptomatically. If swallowed, give an activated charcoal solution (30g/240mL water).

5. Firefighting measures;



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5.1. Fire extinguishers

Suitable for : Carbon dioxide, dry chemicals, water mist, alcohol-resistant foam.
Not suitable : Do not use a water jet. Using water with foam can damage the foam.

5.2. Specific hazards arising from the substance or mixture.

Specific exposure hazards : Vapors accumulating on the surface due to carbon monoxide formation can cause burns.
Hazardous thermal decomposition products : Carbon monoxide, carbon dioxide, and unburned hydrocarbons produced during combustion.

5.3. Recommendations for firefighting teams

Special for firefighters. Use full-face mask protective clothing in positive pressure mode with a breathing apparatus. Cool the outside of the containers with water.

6. Measures to prevent accidental release;

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid sources of ignition. Do not smoke. Avoid inhaling vapors. Ensure adequate ventilation. Vapors may accumulate in confined spaces. Use chemical protective clothing and a respirator.

6.2. Environmental measures

Environmental measures : Prevent spills and spread. Prevent spread into sewers, drains, rivers, lakes, and streams. If spillage occurs in enclosed areas, ensure adequate ventilation. If spillage occurs into water sources, notify the authorities.

Other information : Unknown.

6.3. Methods and materials for preservation and cleaning.

Cleaning methods : Vacuum up large debris. Absorb with inert absorbents (sand, soil, vermiculite, etc.). Send to waste collection areas. Ensure adequate ventilation. Avoid sources of flame and do not smoke.

6.4. References to other sections

References to other sections : See also section 8.

7. Handling and storage;

7.1. Precautions for safe handling

Precautions for safe handling : Handle in well-ventilated areas. Do not inhale vapors. Avoid contact with skin. Wear personal protective equipment. Do not smoke. Do not eat or drink. Use a grounding system. Do not swallow.

7.2. Conditions for secure storage, including disputes.

Storage conditions : Store in a way that will not contaminate water sources. Store away from flames and heat sources. Keep away from oxidizers and corrosive materials. Store in a cool, well-ventilated environment. Keep the packaging tightly closed. Opened packaging must be tightly resealed to prevent leakage. Avoid direct sunlight. Store between 5-25°C. Do not smoke.

Recommended packaging : Store only in the packaging in which it was supplied.

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7.3. Specific end uses

Usage : Use only as directed.

8. Exposure control/personal protection;

8.1. Control parameters

Dimethyl ether

Observed Effects	Exposure	DNEL	Type of Toxicity
Worker damage limits			
Inhalation - Systemic Effects	Prolonged exposure	1894 mg/ m ³ NOAEC: 23671 mg/ m ³	Repeated dose toxicity
	Acute/short-term exposure	Low damage	
Inhalation - Local Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Dermal-Systemic Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Dermal-Local Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Eyes		No damage was reported.	
Damage limits for the general population.			
Inhalation - Systemic Effects	Prolonged exposure	471 mg/ m ³ NOAEC: 11777 mg/ m ³	Repeated dose toxicity
	Acute/short-term exposure	Low damage	
Inhalation - Local Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Dermal-Systemic Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Dermal-Local Effects	Prolonged exposure	No damage was reported.	
	Acute/short-term exposure	No damage was reported.	
Oral-Systemic Effects	Prolonged exposure	No damage was reported.	
Oral-Systemic Effects	Acute/short-term exposure	No damage was reported.	



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Eyes		No damage was reported.	
Toluene			
Observed Effects	Exposure	DNEL	Type of Toxicity
Worker damage limits			
Inhalation - Systemic Effects	Prolonged exposure	192 mg/ m ³	Neurotoxicity
	Acute/Short-term exposure	384 mg/ m ³	Neurotoxicity
Inhalation - Local Effects	Prolonged exposure	192 mg/ m ³	
	Acute/Short-term exposure	384 mg/ m ³	
Dermal-Systemic Effects	Prolonged exposure	384 mg/kg body weight/day	
	Acute/Short-term exposure	No damage was reported.	
Dermal-Local Effects	Prolonged exposure	No damage was reported.	
	Acute/Short-term exposure	No damage was reported.	
Eye-Local Effects	No damage was reported.		
Damage limits for the general population.			
Inhalation - Systemic Effects	Prolonged exposure	56.5 mg/ m ³	Neurotoxicity
	Acute/Short-term exposure	226 mg/ m ³	Neurotoxicity
Inhalation - Local Effects	Prolonged exposure	56.5 mg/ m ³	Irritation
	Acute/Short-term exposure	226 mg/ m ³	Irritation
Dermal-Systemic Effects	Prolonged exposure	226 mg/ m ³	Neurotoxicity
	Acute/Short-term exposure	No damage was reported.	
Dermal-Local Effects	Prolonged exposure	No damage was reported.	
	Acute/Short-term exposure	No damage was reported.	
Oral-Systemic Effects	Prolonged exposure	8.3 mg/kg body weight/day	Neurotoxicity
	Acute/Short-term exposure	No damage was reported.	
Eye-Local Effects	No damage was reported.		

8.2. Exposure controls

- Engineering measures : Ensure adequate general and local ventilation. The ventilation system should be regularly maintained and inspected. Observe the exposure limits of the product or content.
- Hygiene precautions : Do not eat, drink, or smoke while using the product. Wash your hands after handling.
- Personal protective equipment : The effectiveness of personal protective equipment depends, among other factors, on temperature and ventilation. Professional advice should be sought depending on the specific situation.

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- Body protection : Wear protective clothing, work overalls or suit and similar footwear conforming to EN 365/367, specifically standard 345. Suitable material: nitrile. Insulation time: impermeable.
- Respiratory protection : Use a respiratory device. Test that the filter is new and that the device fits snugly to your face. The gas and filter cartridge must comply with EN 14387. Full face masks and replaceable filter cartridges must comply with EN 136. Half face masks and replaceable cartridges must comply with EN 140.
- Hand protection : Wear gloves conforming to EN 374 standard . Suitable material: nitrile. ± 0.5 mm penetration time: impermeable. Replace gloves as needed.
- Eye protection : Use tightly fitting, chemical-protective goggles or a face shield. If there is a risk of inhalation, use a full-face gas mask.

9. Physical and chemical properties;

9.1. Basic physical and chemical properties

- Physical Appearance : Aerosol
Color : Metallic gray
Scent : Characteristic
Odor threshold : Unknown
Flash Point (°C) (min) : Unknown
Boiling Point (°C) (min) : Unknown
Density (g/ cm³) : 0.9-1.0
Viscosity (KU) : 100-110
Vapor Pressure : Unknown
Vapor density : Unknown
Solvability : Unknown

9.2. Other information

No further information available.

10. Stability and reactivity;

10.1. Reaction

- Reactivity : There are no known harmful reactive effects.

10.2. Chemical stability

- Stability : It is stable under normal conditions.

10.3. Possibility of harmful reactions

- Reactivity : The likelihood of a reaction occurring is high in the presence of oxidizing agents.

10.4. Situations to avoid

- Conditions to avoid : Avoid sources of flame such as heat and sparks. Containers may explode or burn fiercely due to excessive pressure when heated. Static electricity buildup must be prevented.

10.5. Substances to avoid

Materials to avoid: Oxidizing agents.

10.6. Harmful decomposition products,

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Hazardous decomposition products : Do not decompose if stored and used under appropriate conditions. Products that decompose thermally or are compressed may include: harmful gases and vapors.

11. Toxicological information;

11.1. Information about toxic effects

Article	Toxicity Type	Toxicity Zone	Test Animal	Conclusion
Toluene	Acute	Oral	Rat/Male	LD 50: 5000 mg/kg
		Breathing	Human/Female-Male	192 mg/ m ³
		Dermal	Rabbit	LD 50: 5000 mg/kg
	Irritation	Dermal	Rabbit	There is
		Eyelash	Rabbit	There is
		Breathing		None
	Sensibility	Dermal	Guinea Pig/Female	None
		Breathing		None
	Repeat Dose	Oral	Rat/Female-Male	NOAEL; 625 mg/kg/day
		Inhalation/Systemic	Rat/Female-Male	NOAEC; 98 mg/ m ³
Inhalation/Local		Rat/Female-Male	LOAEC; 2261 mg/ m ³	
Genetic		Rat	None	
Reproductive/Developmental toxicity	Breathing	Rat / Female-Male	NOAEC; 2261 mg/ m ³	
Dimethyl ether	Acute	Breathing	Rat/Male	LC 50: 164,000 ppm
	Genetic		Drosophila melanogaster/Male	None
	Carcinogenicity	Breathing	Rat/Male-Female	None
	Reproductive/Developmental toxicity	Teratogenicity	Rat	NOAEL: 40000 ppm
Breathing		Rat/Male-Female	None	

12. Ecological information;

12.1. Toxicity

PNEC Values	Toluene	Dimethyl Ether
Fresh water	0.68 mg/l	0.155 mg/l 1,549 mg/l (batch)
Marine	0.68 mg/l	0.016 mg/l
STP	13.61 mg/l	160 mg/l
Sediment (Fresh water)	16.39 mg/kg sediment dw	0.681 mg/kg sediment dw
Sediment (Marine)	16.39 mg/kg sediment dw	0.069 mg/kg sediment dw

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Soil	2.89 mg/kg soil dw	0.045 mg/kg soil dw
Predators	-	-
Weather		

12.2. Persistence and degradability

Persistence : Biodegradable.

12.3. Bioaccumulation potential

Potential for bioaccumulation : There is no known potential for bioaccumulation.

12.4. Mobility in the soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB assessment

PBT/vPvB values : Does not contain PBT or vPvB substances.

12.6. Other negative effects

Other information : Not applicable.

13. Disposal information;

13.1. Waste processing methods

Product residue : Recyclable container. Do not puncture or burn, even after use. Do not dispose of empty packaging with normal household waste. Containers should be recycled or reused. Product residues, including non-empty packaging, should be treated as chemical waste.

Additional warning : Unknown.

European Waste Catalogue : Dispose of hazardous waste in an official chemical waste storage facility in accordance with Directive 91/689/EEC and under a waste law pursuant to Commission Decision 2000/532/EC.

Local regulations : Waste disposal must comply with applicable regional, national, and local laws and regulations. Local regulations may be stricter than regional and national requirements and must be complied with.

14. Transportation information;

14.1. UN Number : UN 1950

14.2. Appropriate UN shipping name

Appropriate shipping name : AEROSOLS

Proper shipping name (IMDG, IATA) : AEROSOLS

14.3. Transportation hazard class(es) : 2 (ADR/RID/ADN/IMDG/IATA)

Classification Code : 5F (ADR/RID/ADN)



Hazard Label : 2.1

14.4. Packaging group : None

14.5. Environmental damage

Marine pollutant : No

14.6. Special measures for the user

Unless otherwise stated, measures applicable to safe transport will be taken.

IATA Cargo Aircraft: 203

IMDG - Technical name: Aerosol



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IMDG Page: FD, SU

14.7. Public transport according to MARPOL 73/78 Annex II and IBC code.

Marpol : As per the instructions above, it is not a hazardous product.

15. Knowledge of legislation;

15.1. Specific safety, health and environmental regulations for the substance or mixture.

National Legislation

- Turkish Ministry of Environment and Urbanization, Regulation No. 28848, dated December 11, 2013, on the Classification, Labelling and Packaging of Substances and Mixtures.
- Turkish Ministry of Environment and Urbanization, Waste Management Regulation, dated April 2, 2015, numbered 29314.
- Turkish Ministry of Labour and Social Security, Regulation No. 28733 dated August 12, 2013, on Health and Safety Measures in Work with Chemical Substances.
- Turkish Ministry of Labour and Social Security, Regulation No. 28695 dated July 2, 2013, on the Use of Personal Protective Equipment in Workplaces.
- Turkish Ministry of Labour and Social Security, Occupational Health and Safety Law No. 6331, dated June 30, 2012.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information;

Abbreviations

Flammable Liquid 2 : Flammable Liquid, Hazard Category 2.
Flammable Gas 1 : Flammable Gas, Hazard Category 1
BHOT TEK. MRZ 2 : Specific Target Organ Toxicity - Repeated Exposure, Category 2
Reproductive System Toxic, Hazard Category 2
Asp. Tok.1 : Aspiration Toxicity, Hazard Category 1
BHOT SINGLE MRZ 3 : Specific Target Organ Toxicity - Single Exposure, Category 3
Skin Irrit. 2 : Skin Irritation, Hazard Category 2
LD50 : The dose of a substance that causes 50% (half) death in the test animal group (Median Lethal Dose)
LC 50 : Concentration of a substance causing 50% (half) mortality in a test animal group.
ADR : European Agreement concerning the international carriage of dangerous goods by road.
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association
ADN : European Agreement concerning the international carriage of dangerous goods by inland waterways
RID : European Agreement concerning the international carriage of dangerous goods by rail.



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Merpol 73/78 : International Convention for the Prevention of Pollution from Ships, 1973, as amended by Protocol 1978. IBC: International Code for the Construction and Equipment of Ships Carrying Dangerous Bulk Chemicals (International Bulk Chemicals Code)

WEL : Workplace Exposure Limit

TWA : Workplace Exposure Limits

STEL : Short-Term Exposure Limit

EC No : European Community Number

CAS : Service for Chemical Theories

PBT : Persistent, Bioaccumulative, and Toxic Substance.

vPvB : Very Persistent, Highly Bioaccumulative

DNEL : Derived Effect Unobserved Time

Certificate Number: **TÜV/11.302.03**

Certificate Expiration Date: **05.11.2030**

LEGAL NOTICE (DISCLAIMER)

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