

**Safety Data Sheet (SDS)**

In accordance with Regulation (EC) No. 1907/2006 (REACH) as amended by 453/2010/EC  
 In accordance with CCOHS Regulation (Canadian Centre for Educational Health and Safety).

**AEROSOL**

Version 1.1 Revision Data 01.06.2021  
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**SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**
**1.1. Product identifier**

Trade / technical name: **Galvanizing agent "Zinker" aerosol**

Synonyms: None

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

Designed for corrosion protection of exterior and interior surfaces of industrial equipment and metal structures. The composition is used as a primer before applying decorative coatings, as well as an independent anti-corrosion coating to ensure the long-term protection of steel structures in the atmosphere, in aqueous solutions and soil, and to repair zinc coatings.

The composition can be used in industrial and civil construction, transport construction, oil and gas complex, energy, railway facilities, port and hydraulic facilities, vehicles. The coating on the basis of the composition is designed to work in the temperature range from minus 60°C to plus 150°C (short-term to plus 180-210°C when applying powder coatings) in atmospheric conditions of all macroclimatic areas, atmosphere types and placement categories.

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

Manufacturer: NPCAZ LLC

Address: 111622, Moscow, st. Bolshaya Kosinskaya, h. 27

Tel / Fax: +7 (495) 507-53-61

E-mail: info@npcaz.ru

**1.4. Emergency telephone number:**

Emergency Contact Line: Canada, USA: 911, European Community, Russia: 112

**SECTION 2. HAZARDS IDENTIFICATION**
**2.1. Classification of the substance or mixture**

Classification	
Hazards	According to Regulation (EC) No. 1272/2008 (CLP)
Humans	Aerosol 1, Skin Irrit. 2, Eye Irrit. 2, Repr. Tox. 1B
Environment	Aquatic Acute 1, Aquatic Chronic 1.

**2.2. Label elements (label according to Regulation (EC) No. 1272/2008 as amended)**


**Signal word: Danger**

**Hazard statements:**

H222: Extremely flammable aerosol.

H229: The cylinder is under pressure. Explosion may occur when heated.

H315: Causes skin irritation.

H319: Cause serious eye irritation.

H360: May adversely affect fertility or an unborn baby.

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

**Precautionary statements:**

P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P211: Do not spray on an open flame or other ignition source.

H251: Pressurized container: Do not pierce or burn, even after use.

P201+P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves, protective clothing and eye protection.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

**2.3. Other hazards**

Physical hazards: Not classified for physical hazards.

Specific hazards: Not available.

Main symptoms: See Sections 11 of the MSDS

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances

IUPAC Name : none

### 3.2. Mixtures

Chemical Name	Weight, %	CAS No.	EC No.	Hazard Statement (GHS)*
Xylene	27	1330-20-7	215-535-7	H226, H312, H332, H315
Zinc	69	7440-66-6	231-175-3	H410
Butvar B-98	4	63148-65-2	613-158-6	Not classified
Dimethyl ether	50	115-10-6	204-065-8	H220, H280

\* The full text of the H-phrases indicated in Section 16.

## SECTION 4. FIRST-AID MEASURES

### 4.1. Description of first aid measures

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:**

If breathed in, move person into fresh air, provide peace and warmth.

**Skin contact:**

Wash off with soap and plenty of water. Seek medical attention if necessary.

**Eye contact:**

Gently wash eyes with running water. Seek medical attention if necessary.

**Ingestion:**

Rinse the mouth with water; drink plenty of water, activated carbon, saline laxative. Never give anything by mouth to an unconscious person. Consult a physician.

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

Excitement followed by drowsiness, headache, dizziness, intoxication, coughing, sore throat, nausea, vomiting.

## SECTION 5. FIRE-FIGHTING MEASURES

General fire hazards: Extremely flammable aerosol

### 5.1. Extinguishing media

**Suitable extinguishing media:** Sand, finely dispersed water, chemical or air-mechanical foam from stationary installations or fire extinguishers.

**Unsuitable extinguishing media:** Compact jets of water.

### 5.2. Special hazards arising from the substance or mixture

**Combustion products:** Carbon oxides.

### 5.3. Advice for fire fighters

**Special precautions for firefighters:** Small fires should be extinguished with sand, a dry powder extinguisher or carbon dioxide extinguisher; large fires should be extinguished with a foam jet from a maximum distance. If possible, remove containers with product from fire area.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures.

The use of personal protection measures is recommended - see Section 8 of the MSDS.

Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel; do not smoke.

### 6.2. Environmental precautions.

Sealing equipment and packaging. Observe the technological mode.

### 6.3. Methods and material for containment and cleaning up.

Eliminate leakage with caution. Siphon the contents into a working dry container. Protect the straits with an earthen rampart, fill it with inert material, collect and send for disposal or burial. Avoid mechanical damage to the cylinders during the liquidation of accidents.

### 6.4. Reference to other sections

See also Sections 8 and 13 of the MSDS.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### General Precautions:

Provide appropriate exhaust ventilation. Before use carefully read the product label. Use of safe work practices. Observe good personal hygiene, including washing hands before eating. For precautions, see section 2.2, 2.3.

### 7.2. Conditions for safe storage, including any incompatibilities.

The composition should be stored in packaged form in covered, dry, ventilated warehouses on pallets or racks, protected from moisture and direct sunlight at temperatures from minus 40°C to plus 40°C, at least 1 m away from heating devices and sources of fire. The height of the stack of packages with the composition during storage and transportation in cardboard boxes and boxes should not exceed 2.5 m, in group packaging and returnable cardboard boxes - 1.5 m. The warranty storage period for the composition is 36 months from the date of manufacture.

### 7.3. Specific end use(s)

None.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Xylene: 100 ppm as an 8-hour TWA (OSHA PEL).

Dimethyl ether: TWA 500 ppm (958 mg/m<sup>3</sup>) (STEL).

## 8.2. Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Use safety glasses if necessary. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin protection

Handle with gloves from nitrile rubber with a thickness of at least 0.11 mm. Gloves must be inspected prior to use.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. In emergency situations use type N95 (US) or type P1 (EN 143) dust masks.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental controls:** Not required.

**Thermal hazards:** Not applicable.

**Hygiene measures:** Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practices. Follow upon any medical surveillance requirements.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance:	.Aerosol
Color:	.Gray
Odour:	.Specific
PH:	.6.7 ± 0,3
Melting point/freezing point:	.Not available
Initial boiling point and boiling range:	.Not available
Flash point:	.Not available
Evaporation rate:	.Not available
Flammability (solid, gas) :	.Not available
Burning time:	.Not available
Upper/lower flammability or explosive limits:	. . .Not available
Vapour pressure:	.Not available
Vapour density:	.Not available
Density:	.Not available
Solubility(ies) :	.Insoluble in water
Partition coefficient (n-octanol/water) :	.Not available
Self-ignition temperature:	.Not available
Decomposition temperature:	.Not available
Viscosity:	.Not available
Explosive properties:	.None
Oxidizing properties:	.None

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The products are stable under normal conditions of transportation and storage.

### 10.3. Possibility of hazardous reactions

Under normal conditions hazardous reactions will not occur.

### 10.4. Conditions to avoid

Avoid overheating, sparks, open flame.

Avoid mechanical damage to cylinders.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Effect of Acute Exposure

#### Acute Toxicity

DL<sub>50</sub> > 5000 mg/kg, rat - Oral

CL<sub>50</sub> > 10000 mg/m<sup>3</sup>, rat, 4 h - Inhalation

DL<sub>50</sub> > 10000 mg/kg, rabbit - Dermal

Component	DL <sub>50</sub> , Oral	CL <sub>50</sub> , Inhalation	DL <sub>50</sub> , Dermal
Xylene	3523 mg/kg, rat	6700 ppm, rat, 4 h	12126 mg/kg, rabbit
Zinc	> 2000 mg/kg, rat	> 5410 mg/m <sup>3</sup> air, rat	-
Butvar B-98	-	-	-
Dimethyl ether	-	164000 ppm, rat, 4 h	-

#### Eyes and skin irritation

Causes skin irritation. Cause serious eye irritation.

Respiratory or skin sensitization: Does not cause allergic reactions.

Specific target organ toxicity - Single exposure: None.

### 11.2. Effects of chronic exposure

Repeated dose toxicity: Not available.

Specific target organ toxicity - Repeated exposure: None.

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Reproductive toxicity: May adversely affect fertility or an unborn baby (xylene).

Embriotoxicity: Not classified.

Teratogenicity: Not classified.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Aquatic Toxicity

Component	Short-term toxicity to fish	Long-term toxicity to fish	Short-term toxicity to aquatic invertebrates	Long-term toxicity to aquatic invertebrates
Xylene	LC50 = 8,4 mg/l, Oncorhynchus mykiss, 96 h	NOEC > 1,3 mg/l, Oncorhynchus mykiss, 56 d	IC50 = 4,7 mg/l, Daphnia magna, 24 h	NOEC = 1,17mg/l, Ceriodaphnia dubia, 7 d
Zinc	LC50 = 315 mg/l, Thymallus arcticus, 9 h	NOEC = 440 mg/l, Oncorhynchus mykiss, 72 d	LC50 = 1220 mg/l, Daphnia magna, 48 h	NOEC = 51 mg/l, Daphnia magna, 50 d
Butvar B-98	-	-	-	-
Dimethyl ether	NOEC $\geq$ 4,1 g/l, Poecilia reticulata, 96 h	-	NOEC $\geq$ 4,4 g/l, Daphnia magna, 48 h	-

### 12.2. Persistence and degradability

Biotic: Biodegradation potential: not applicable. Activated sludge simulation test: not applicable.

Abiotic: Hydrolysis as pH function: does not occur

Photolysis/phototransformation: does not occur

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvP assessment

Chemical assessment was not conducted.

### 12.6. Other adverse effects

Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste disposal

#### Product

Waste and spilled should be collected in a sealed container and disposed in accordance with local regulations.

#### Contaminated packaging

Dispose of in accordance with relevant local legislation.

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

Trade Name: Galvanizing agent "Zinker" Aerosol

ADR/RID: FLAMMABLE AEROSOL

IMDG: FLAMMABLE AEROSOL

IATA: FLAMMABLE AEROSOL

### 14.3. Transport hazard class(es)

Allowed transportation by all means of transport.

ADR/RID: 2    IMDG: 2    IATA: 2

### 14.4. Packing group

None

## 14.5. Label



## 14.6. Environmental hazards

ADR/RID: yes IMDG: yes IATA: no

## 14.7. Others:

None

## SECTION 15. REGULATORY INFORMATION

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

Not classified according to EEC Directives 67/548/EEC and 88/379/EEC.

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I: Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II: Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended: Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended: Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended: Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended: Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended: Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry: Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA: Not listed.

#### Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization: Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended: Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work: Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding: Not regulated.

#### Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances: Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work: Not listed.

Directive 94/33/EC on the protection of young people at work: Not listed.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EU directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No.1907/2006. National regulations Follow national regulation for work with chemical agents.

### 15.2. Chemical safety assessment

Chemical safety assessment for this substance was not carried out.

## SECTION 16. OTHER INFORMATION

### Abbreviations and acronyms in the Safety Data Sheet

**ACGIH** = American Conference of Governmental Industrial Hygienists CAS = Chemical Abstracts Service  
**vPvB** = very Persistent, very Bioaccumulative (substance) PBT = Persistent, Bioaccumulative and Toxic (substance)  
**PNEC** = Predicted No Effect Concentration  
**DN(M)EL** = Derived No Effect Level  
**LD50** = Dose that will kill 50% of test animals  
**LC50** = Concentration that will kill 50 % of test animals  
**LL50** = Lethal Loading fifty  
**ECX** = Concentration at which x% inhibition of growth or growth rate is observed  
**OECD** = Organisation for Economic Co-operation and Development  
**REACH** = Registration Evaluation And Authorisation Of Chemicals  
**RID** = Regulations concerning International Carriage of Dangerous Goods by Rail  
**ADR** = European Agreement concerning the International Carriage of Dangerous Goods by Road  
**IMDG** = International Maritime Transport of Dangerous Goods  
**IATA** = International Air Transport Association  
**IARC** = International Agency for Research on Cancer  
**UVCB** = Unknown substances, of Variable Composition, or of Biological origin  
**ECHA** = European Chemicals Agency  
**EINECS** = The European Inventory of Existing Commercial Chemical Substances

### Basic literature references and data sources

- Regulation (EC) No. 1907/2006 (REACH) as amended by 453/2010/EC.  
- Regulation (EC) No. 1272/2008 (CLP, EU GHS).

### List of applicable H-phrases, P-phrases or warning statements not fully indicated in Sections 2-15 of this safety data sheet:

**H226** Flammable liquid and vapor  
**H312** Harmful in contact with skin  
**H332** Harmful if inhaled  
**H280** Contains gas under pressure; may explode if heated

### Advice on training for employees:

Unspecified.

The above information is based on our current knowledge and experience. It is not a guarantee of any properties of the product, or its quality specifications and it may not provide a basis for any complaint. The product should be transported, stored, and used in compliance with applicable laws and regulations, good practices, and the rules of occupational hygiene. The information presented is not applicable to mixtures of the product with other substances. The use of the information provided, as well as the use of the product, is not controlled by the manufacturer, and thus it is the User's obligation to create suitable conditions for safe handling of the product. Users should be aware that we are not responsible for any incorrect use of our product other than as recommended by us.