

Zinc Coat Spray (ZC-420)	SDS No.	583038
TRUSCO NAKAYAMA CORPORATION	Revision Date	Nov. 04, 2025

SAFETY DATA SHEET(SDS)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name : Zinc Coat Spray (ZC-420)
 Company Name : TRUSCO NAKAYAMA CORPORATION
 Address : 28-1 SHINBASHI 4-chome, MINATO-KU, TOKYO, JAPAN
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2 HAZARDS IDENTIFICATION

Hazards Category

Aerosols	: Category 1
Flammable Liquids	: Category 3
Skin Corrosion/Irritation	: Category 2
Serious Eye Damage/Eye Irritation	: Category 2A
Carcinogenicity	: Category 1A
Reproductive Toxicity	: Category 1A
Specific Target Organ Systemic Toxicity(Single Exposure)	: Category 1
Specific Target Organ Systemic Toxicity(Single Exposure)	: Category 3
Specific target organ systemic toxicity(Repeated exposure)	: Category 1
Specific target organ systemic toxicity(Repeated exposure)	: Category 2
Aspiration Hazard	: Category 1
Hazardous to The Aquatic Environment(Acute)	: Category 1
Hazardous to The Aquatic Environment(Chronic)	: Category 2

The one without the description cannot be classified.

Allocation of Label Elements

Pictogram

Flame
 Exclamation mark
 Health Hazard
 Environment



Signal Word

Danger

Hazard Statement

Extremely flammable aerosol
 Pressurized container : may burst if heated
 Flammable liquid and vapour
 Cause skin irritation
 Cause serious eye irritation
 May cause cancer
 May damage fertility or the unborn child
 May cause harm to breast-fed children
 Cause damage to organs
 May cause respiratory irritation; or May cause drowsiness or dizziness
 Causes damage to organs through prolonged or repeated exposure
 May causes damage to organs through prolonged or repeated exposure
 May be fatal if swallowed and enters airways
 Very toxic to aquatic life
 Toxic to aquatic life with long lasting effects

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Precautionary Statement

Prevention

Before use, read the safe data sheet (SDS).
 Keep out of reach of children.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Do not spray on an open flame or other ignition source.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not burn, even after use.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Avoid contact during pregnancy/while nursing.
 Wash points of contact thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection.

Response

In case of fire : Use dry chemical, carbon dioxide(CO₂), and foam to extinguish.
 IF SWALLOWED : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
 IF ON SKIN : Wash with plenty of soap and water.
 If skin irritation or rash occurs : Get medical advice/attention.
 IF INHALED : Remove person to fresh air and keep comfortable for breathing.
 Get medical advice/attention if you feel unwell.
 IF IN EYES : Rinse cautiously with water for several minutes. Get medical advice/attention.
 If exposed or concerned : Get medical advice/attention.
 Take off contaminated clothing.
 Wash contaminated clothing before reuse.
 Collect spillage.

Storage

Store locked up.
 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 Protect from sunlight. Do not expose to temperatures exceeding 40°C.

Disposal

Dispose of contents /container in accordance with local/regional/national/international regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients and Contents

Component name	CAS number	wt%
Zinc	7440-66-6	10~20
Zinc oxide	1314-13-2	<1
Aluminium	7429-90-5	1~5
Xylene	1330-20-7	10~20
Ethylbenzene	100-41-4	10~20
Methanol	67-56-1	<1
Ethanol	64-17-5	<1
Dimethyl ether	115-10-6	40~50

4 FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a physician if you feel unwell.

Skin

Wash with plenty of soap and water.
 Call a physician if you feel unwell.

Eye

Immediately flush eyes with plenty of water for at least 15 minutes.

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Call a physician.

Ingestion

Rinse mouth. Do not induce vomiting.

Call a physician.

5 FIRE-FIGHTING MEASURES

Extinguishing Media

Dry chemical, carbon dioxide(CO2), and foam

Specific Fire Fighting

Must not use water to extinguish fires.

Quickly removed from the surrounding flammable.

The use of extinguishing agents specified.

Fire fighting is done from the windward.

On small fires use carbon dioxide (CO2) or dry chemical.

On large fires use dry chemical or foam.

Sealed containers that are exposed to high temperatures over the water to cool.

Protection for Fire-fighter

Wear full body protective clothing with breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective equipments in case of operation.

Environmental Precautions

Avoid release to the environment.

Methods for Cleaning Up

Remove potential ignition source in vicinity as soon as possible.

Prepare extinguishing agent.

Prevent leakage by enclosing with nonflammables and collect into empty container by scoop or the like.

Absorbed to non-flammable dry sand, if a large amount of spill to prevent enclosed in embankment.

If do not stop the leakage from the container, releasing carried away in a place not at risk of being open.

Spilled material is collected in a container that can be sealed, then remove to safe place.

Deposits, waste treatment is based on the local regulations.

Working from the windward, to evacuate people downwind.

7 HANDLING AND STORAGE

Handling

Use in a well ventilated area.

Keep away from heat, spark and flames.

Use spark-proof tools and explosion-proof equipment.

After handling, wash well hands and face and rinse your mouth.

Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.

Leakage, overflow, to prevent scattering, we do not generate steam in vain.

In the handling area and deny unnecessary entry.

Resting place shall not bring contaminated protective equipment such as gloves.

Wear protective equipments when risk of exposure occurs.

To work in an enclosed area that you work with appropriate protective equipment with a local exhaust ventilation sufficient.

Precautions

Do not breathe vapor or mist.

Handling of the outdoors, as much as possible to work from the windward.

Note is flammable at higher temperatures.

Do not handle in a fire place.

Do not handle in the place more than 40 °C.

Do not use continuously for more than 30 seconds.

Do not store near heat or open flame areas exposed to direct sunlight.

Not want to use toward food and the human body.

Handling Precautions for Safety

Zinc Coat Spray (ZC-420)	SDS No.	583038
TRUSCO NAKAYAMA CORPORATION	Revision Date	Nov. 04, 2025

Avoid physical damage to containers.

Contact avoidance

Avoid contact with fire, oxidizing agents, acids, and alkalis, and do not mix or come into contact with them.

Storage

Fire prohibited strictly.

Do not store in direct sunlight or where more than 40 °C.

Keep away from sources of ignition.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Note that because there is a risk of corrosion and rupture the container is stored in a moisture or humid place.

Store in a tightly closed container.

Safe containers and packaging materials

None in particular.

8 EXPOSURE/PERSONAL PROTECTION

Engineering Controls

Handling equipment is used explosion-proof.

Attach an exhaust device to prevent vapor from staying.

That the equipment and shall become hot, and the source of ignition in the vicinity of the location, such as handling not been placed.

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limit Values

Chemical name	ACGIH
Zinc oxide	TWA 2mg/m ³ (R), STEL 10mg/m ³ (R)
Aluminium	TWA 1mg/m ³ (R)
Xylene	TWA 100ppm, STEL 150ppm
Ethylbenzene	TWA 20ppm
Methanol	TWA 200ppm, STEL 250ppm (Skin)
Ethanol	STEL 1,000ppm

Personal Protective Equipment

Respiratory Protection

Wear an organic gas mask or positive pressure air respirator if necessary.

Skin Protection

Solvent-resistant gloves

Eye Protection

Wear chemical worker's goggles.

Skin and body protection

Such as long-sleeved work clothes

Hygiene measures

Do not eat, drink or smoke during work.

Replacement of the adsorbent, such as the mask is performed each time or use plans.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid	(Base liquid)
Color	:	Silver gray	
Odor	:	Solvent odor	
pH	:	Not available	
Boiling Point(°C)	:	Not available	
Melting Point(°C)	:	Not available	
Flammability	:	Not available	
Flash point(°C)	:	25	
Auto-ignition Temperature(°C)	:	401	
Flammability or Explosive Limits			
Lower	:	1.1	
Upper	:	7.0	
Vapour Pressure (KPa)	:	Not available	

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TRUSCO NAKAYAMA CORPORATION	Revision Date	Nov. 04, 2025

Vapour Density	:	Not available
Relative density(g/cm ³)	:	1.30
Solubility	:	Insoluble in water
Partition Coefficient: n-octanol/water	:	Not available
Decomposition Temperature(°C)	:	Not available
Dynamic viscosity rate	:	Not available
Relative gas density	:	Not available
Particle properties	:	Not available

10 STABILITY AND REACTIVITY

Stability

Stable under normal temperatures and pressures.

Reactivity

No self-reactive

Possibility of hazardous reactions

No valid data

Conditions to Avoid

Fire, oxidizing agents, acids, alkalis

Hazardous substances to avoid

Strong oxidizing agents, Strong acid, Strong salt base

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and other oxidized substances.

11 TOXICOLOGICAL INFORMATION

Chemical name	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation: vapour)	Acute toxicity (inhalation: dust, mist)	Skin corrosion / irritation	Serious eye damage / eye irritation
Zinc	Not applicable to category	Classification not possible	Not applicable to category	Classification not possible	Not applicable to category	Not applicable to category	Category 2B
Zinc oxide	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category
Aluminium	Classification not possible	Classification not possible	Not applicable to category	Not applicable to category	Classification not possible	Classification not possible	Classification not possible
Xylene	Not applicable to category	Category 4	Not applicable to category	Category 4	Classification not possible	Category 2	Category 2A
Ethylbenzene	Not applicable to category	Not applicable to category	Not applicable to category	Category 4	Classification not possible	Not applicable to category	Category 2B
Methanol	Category 4	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible	Classification not possible	Category 2A
Ethanol	Not applicable to category	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible	Not applicable to category	Category 2B
Dimethyl ether	Classification not possible	Classification not possible	Not applicable to category	Not applicable to category	Not applicable to category	Classification not possible	Classification not possible

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Chemical name	Respiratory/skin sensitizer	Germ cell mutagenicity	Carcinogenicity	Toxic to reproduction	Specific target organs/systemic toxicity following single exposure	Specific target organs/systemic toxicity following repeated exposure	Aspiration hazard
Zinc	Respiratory sensitizer: Classification not possible; Skin sensitizer: Not applicable to category	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Zinc oxide	Respiratory sensitizer: Classification not possible; Skin sensitizer: Not applicable to category	Classification not possible	Classification not possible	Category 2	Category 1 (respiratory organs, systemic toxicity)	Classification not possible	Classification not possible
Aluminium	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 1 (respiratory organs)	Category 1 (respiratory organs)	Classification not possible
Xylene	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Category 1B	Category 1 (central nervous system, respiratory organs, liver, kidneys), Category 3 (narcotic effects)	Category 1 (nervous system, respiratory organs)	Category 1
Ethylbenzene	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Category 2	Category 1B	Category 3 (respiratory tract irritation, narcotic effects)	Category 2 (auditory organ)	Category 1
Methanol	Respiratory sensitizer: Classification not possible; Skin sensitizer: Not applicable to category	Not applicable to category	Classification not possible	Category 1B	Category 1 (optic organ, systemic toxicity, central nervous system) ; Category 3 (narcotic effects)	Category 1 (visual organs, central nervous system)	Classification not possible
Ethanol	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Category 1A	Category 1A	Category 3 (respiratory tract irritation, narcotic effects)	Category 1 (liver); Category 2 (central nervous system)	Classification not possible
Dimethyl ether	Respiratory sensitizer: Classification not possible; Skin sensitizer: Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 3 (narcotic effects)	Classification not possible	Classification not possible

12 ECOLOGICAL INFORMATION

Chemical name	Hazardous to the aquatic environment (Acute)	Hazardous to the aquatic environment (Chronic)	Hazard to the ozone layer	Residuality and decomposition	Ecological accumulation	Mobility in soil
Zinc	Category 1	Category 1	Classification not possible	No data	No data	No data

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TRUSCO NAKAYAMA CORPORATION	Revision Date	Nov. 04, 2025

Zinc oxide	Category 1	Category 1	Classification not possible	No data	No data	No data
Aluminium	Classification not possible	Classification not possible	Classification not possible	No data	No data	No data
Xylene	Category 2	Category 2	Classification not possible	No data	No data	No data
Ethylbenzene	Category 1	Category 2	Classification not possible	No data	No data	No data
Methanol	Not applicable to category	Not applicable to category	Classification not possible	No data	No data	No data
Ethanol	Not applicable to category	Not applicable to category	Classification not possible	No data	No data	No data
Dimethyl ether	Not applicable to category	Not applicable to category	Classification not possible	No data	No data	No data

13 DISPOSAL CONSIDERATIONS

Dispose of contents /container in accordance with local/regional/national/international regulations.

14 TRANSPORT INFORMATION

UN Class

Aerosols, flammable, Class 2.1

UN No.

UN1950

Packing Group

Not regulated.

15 REGULATORY INFORMATION

Follow all regulations in your country.

16 OTHER INFORMATION

References

JIS Z 7253 (2019)

GHS data-base (NITE)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.