

|                                    |               |               |
|------------------------------------|---------------|---------------|
| $\alpha$ Blackening Spray (ALP-KZ) | SDS No.       | 1901          |
| TRUSCO NAKAYAMA CORPORATION        | Revision Date | May. 26, 2025 |

## SAFETY DATA SHEET(SDS)

### 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name :  $\alpha$  Blackening Spray (ALP-KZ)  
 Company Name : TRUSCO NAKAYAMA CORPORATION  
 Address : 28-1 SHINBASHI 4-chome, MINATO-KU, TOKYO, JAPAN  
 Phone Number : 0120-509-849  
 Fax Number : 0120-509-839  
 Mail Address : techno.center@trusco.co.jp

### 2 HAZARDS IDENTIFICATION

Hazards Category  
 Aerosols : Category 1  
 Flammable Liquids : Category 2  
 Serious Eye Damage/Eye Irritation : Category 2B  
 Carcinogenicity : Category 2  
 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  
 Hazardous to The Aquatic Environment(Acute) : Category 3

The one without the description cannot be classified.

#### Allocation of Label Elements

##### Pictogram

Flame  
 Exclamation mark  
 Health Hazard



##### Signal Word

Danger

##### Hazard Statement

Extremely flammable aerosol  
 Pressurized container : may burst if heated  
 Highly flammable liquid and vapour  
 Cause eye irritation  
 Suspected of causing 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  
 Harmful to aquatic life

##### 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.

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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(CO<sub>2</sub>), 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.  
Absorb spillage to prevent material damage.

#### 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%   |
|-------------------------------------------------------------------------------------|-------------|-------|
| Carbon black                                                                        | 1333-86-4   | <1    |
| Reaction product of hydroxy-terminated dimethyl(siloxanes and silicones) and silica | 102782-80-9 | <1    |
| Ethyl acetate                                                                       | 141-78-6    | 30~40 |
| 1-Butanol                                                                           | 71-36-3     | 1~5   |
| 2-Propanol, 1-methoxy-                                                              | 107-98-2    | 1~5   |
| Toluene                                                                             | 108-88-3    | 1~5   |
| Butanol, 3-methoxy-3-methyl-                                                        | 56539-66-3  | 1~5   |
| Xylene                                                                              | 1330-20-7   | <1    |
| Ethylbenzene                                                                        | 100-41-4    | <1    |
| Dimethyl ether                                                                      | 115-10-6    | 50~60 |

### 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.  
Call a physician.

#### Ingestion

Rinse mouth. Do not induce vomiting.  
Call a physician.

### 5 FIRE-FIGHTING MEASURES

#### Extinguishing Media

|                                    |               |               |
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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

Avoid physical damage to containers.

#### 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.

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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                      |
|------------------------|----------------------------|
| Carbon black           | TWA 3mg/m <sup>3</sup> (l) |
| Ethyl acetate          | TWA 400ppm                 |
| 1-Butanol              | TWA 20ppm                  |
| 2-Propanol, 1-methoxy- | TWA 100ppm, STEL 150ppm    |
| Toluene                | TWA 20ppm                  |
| Xylene                 | TWA 100ppm, STEL 150ppm    |
| Ethylbenzene           | TWA 20ppm                  |

### 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                                  | : | Black              |               |
| Odor                                   | : | Solvent odor       |               |
| pH                                     | : | Not available      |               |
| Boiling Point(°C)                      | : | Not available      |               |
| Melting Point(°C)                      | : | Not available      |               |
| Flammability                           | : | Not available      |               |
| Flash point(°C)                        | : | -4                 |               |
| Auto-ignition Temperature(°C)          | : | Not available      |               |
| Flammability or Explosive Limits       | : |                    |               |
| Lower                                  | : | Not available      |               |
| Upper                                  | : | Not available      |               |
| Vapour Pressure (KPa)                  | : | Not available      |               |
| Vapour Density                         | : | Not available      |               |
| Relative density(g/cm <sup>3</sup> )   | : | 0.90               |               |
| 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      |               |

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## 10 STABILITY AND REACTIVITY

### Stability

Stable under normal temperatures and pressures.

### Reactivity

No self-reactive

### Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

### 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 |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------|----------------------------------|-------------------------------------|-----------------------------------------|-----------------------------|-------------------------------------|
| Carbon black                                                                        | Not applicable to category  | Classification not possible | Not applicable to category       | Not applicable to category          | Classification not possible             | Not applicable to category  | Not applicable to category          |
| Reaction product of hydroxy-terminated dimethyl(siloxanes and silicones) and silica | Classification not possible | Classification not possible | Classification not possible      | Classification not possible         | Classification not possible             | Classification not possible | Classification not possible         |
| Ethyl acetate                                                                       | Not applicable to category  | Not applicable to category  | Not applicable to category       | Category 4                          | Classification not possible             | Not applicable to category  | Category 2B                         |
| 1-Butanol                                                                           | Not applicable to category  | Not applicable to category  | Not applicable                   | Classification not possible         | Not applicable to category              | Category 2                  | Category 2A                         |
| 2-Propanol, 1-methoxy-                                                              | Not applicable to category  | Not applicable to category  | Not applicable to category       | Category 4                          | Classification not possible             | Not applicable to category  | Category 2B                         |
| Toluene                                                                             | Not applicable to category  | Not applicable to category  | Not applicable to category       | Category 4                          | Classification not possible             | Category 2                  | Category 2B                         |
| Butanol, 3-methoxy-3-methyl-                                                        | Not applicable to category  | Not applicable to category  | Not applicable to category       | Classification not possible         | Classification not possible             | Not applicable to category  | Category 2A                         |
| 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                         |
| 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         |

| 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 |
|---------------|-----------------------------|------------------------|-----------------|-----------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|-------------------|
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|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------|
| Carbon black                                                                        | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Category 2                  | Classification not possible | Classification not possible                                                                               | Category 1 (respiratory organs)                     | Classification not possible |
| Reaction product of hydroxy-terminated dimethyl(siloxanes and silicones) and silica | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Classification not possible | Classification not possible | Classification not possible                                                                               | Classification not possible                         | Classification not possible |
| Ethyl acetate                                                                       | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer: Not applicable to category     | Not applicable to category  | Classification not possible | Classification not possible | Category 3 (narcotic effects, respiratory tract irritation)                                               | Classification not possible                         | Classification not possible |
| 1-Butanol                                                                           | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Classification not possible | Classification not possible | Category 3 (respiratory tract irritation, narcotic effects)                                               | Category 1 (central nervous system, auditory organ) | Classification not possible |
| 2-Propanol, 1-methoxy-                                                              | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Classification not possible | Not applicable to category  | Category 3 (narcotic effects)                                                                             | Not classified                                      | Classification not possible |
| Toluene                                                                             | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer: Not applicable to category     | Not applicable to category  | Classification not possible | Category 1A                 | Category 1 (central nervous system)<br>Category 3 (respiratory tract irritation, narcotic effects)        | Category 1 (central nervous system, kidneys)        | Category 1                  |
| Butanol, 3-methoxy-3-methyl-                                                        | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer: Not applicable to category     | Classification not possible | Classification not possible | Not applicable to category  | Classification not possible                                                                               | Classification not possible                         | Classification not possible |
| Xylene                                                                              | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Classification not possible | Category 1B                 | Category 1 (central nervous system, respiratory organs, liver, kidneys),<br>Category 3 (narcotic effects) | Category 1 (nervous system, respiratory organs)     | Category 1                  |
| Ethylbenzene                                                                        | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>Classification not possible | Classification not possible | Category 2                  | Category 1B                 | Category 3 (respiratory tract irritation, narcotic effects)                                               | Category 2 (auditory organ)                         | Category 1                  |
| Dimethyl ether                                                                      | Respiratory sensitizer:<br>Classification not possible; Skin sensitizer:<br>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 |
|---------------|----------------------------------------------|------------------------------------------------|---------------------------|-------------------------------|-------------------------|------------------|
|---------------|----------------------------------------------|------------------------------------------------|---------------------------|-------------------------------|-------------------------|------------------|

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|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------|---------|---------|
| Carbon black                                                                        | Not applicable to category  | Classification not possible | Classification not possible | No data | No data | No data |
| Reaction product of hydroxy-terminated dimethyl(siloxanes and silicones) and silica | Classification not possible | Classification not possible | Classification not possible | No data | No data | No data |
| Ethyl acetate                                                                       | Not applicable to category  | Not applicable to category  | Classification not possible | No data | No data | No data |
| 1-Butanol                                                                           | Not applicable to category  | Not applicable to category  | Classification not possible | No data | No data | No data |
| 2-Propanol, 1-methoxy-                                                              | Not applicable to category  | Not applicable to category  | Classification not possible | No data | No data | No data |
| Toluene                                                                             | Category 2                  | Category 3                  | Classification not possible | No data | No data | No data |
| Butanol, 3-methoxy-3-methyl-                                                        | Not applicable to category  | Not applicable to category  | 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 |
| 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)

|                                    |               |               |
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