

# **Safety Data Sheet**

#### 1. Identification

Product name

RD14-3527

Name of manufacture:

TOYO ALUMINIUM K.K.

Name of section

PASTE DEVELOPMENT & SALES DEPT.

Address

MIDOSUJI DAIWA BLDG, 6-8, KYUTAROMACHI 3-CHOME, CHUO-KU,

OSAKA, 541-0056, JAPAN

Telephone number

81-745-69-3094

Fax number

81-745-69-6859

Emergency telephone number Recommended uses

81-745-69-3091(SHINJO works)

Aluminium pigment for ink

Date of revision: -

Date of issue: March 28, 2014

# 2. Hazard identification

#### Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

Pictogram:

Signal Word:

Warning

Hazard Statement:

H226

Flammable liquid and vapour

H319

Causes serious eye irritation

H336

May cause drowsiness or dizziness

Precautionary Statements (Prevention):

P210

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

P241

Use explosion-proof electrical/ventilating/lighting/equipment.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P303 + P361 + P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P405

Store locked up.

# According to Directive 67/548/EEC or 1999/45/EC

**EEC Directives** 

R-phrase(s)

R10

Flammable.

R-phrase(s)

**R36** 

Irritating to eyes.

S-phrase(s)

S7/8

Keep container tightly closed and dry.

S25

Avoid contact with eyes.



Hazard determining component(s) for labelling: 2-METHOXY-1-METHYLETHYL ACETATE, ISOPROPYLACETATE, aluminium powder (stabilised)

# Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3

### According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Flammable.

For the classifications not written out in full in this section the full text can be found in section 16.

#### Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):

No specific dangers known, if the regulations/notes for storage and handling are considered.

# 3. Composition/Information on Ingredients

### **Mixtures**

Description

Mixture of the substances listed below with harmless additions.

### Dangerous components

2-methoxy-1-methylethyl acetate

Content (W/W): 88 - 91 %

Flam. Liq. 3

CAS Number: 108-65-6

H226, H319

EINECS Number: 203-603-9

REACH registration number:

01-2119475791-29

### isopropyl acetate

Content (W/W): -10 %

Flam. Liq. 2

CAS Number: 108-21-4

H225, H319, H336

EINECS Number: 203-561-1

REACH registration number:

STOT SE 3 (drowsiness and dizziness)

01-2119537214-46

# aluminium powder (stabilised)

Content (W/W): 2.5 - 4.0 %

Flam. Sol. 1

CAS Number: 7429-90-5

Water-react. 2

EINECS Number: 231-072-3

H228

REACH registration number:

01-2119529243-45



### 4. First-Aid Measures

# Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink plenty of water.

# Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

# Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

# 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media: dry powder, foam

### Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

#### 6. Accidental Release Measures

# Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Breathing protection required.

### **Environmental precautions**



Contain contaminated water/firefighting water.

Do not discharge into drains/surface waters/groundwater.

# Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance

with regulations.

#### Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

# 7. Handling and Storage

# Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

# Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.

Storage stability:

Storage temperature: 0 - 40 °C

Protect from temperatures below: -15 °C

Protect from temperatures above: 40 °C

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# 8. Exposure Controls/Personal Protection

# Control parameters

Components with workplace control parameters

108-65-6: 1-methoxy-2-propylacetate

WEL

Short-term value: 548 mg/m<sup>3</sup>; 100 ppm Long-term value: 274 mg/m<sup>3</sup>; 50 ppm

108-21-4: isopropyl acetate

WEL

Short-term value: 849 mg/m<sup>3</sup>; 200 ppm



7429-90-5: aluminium powder (stabilised)

OES

Long-term value: 10\*; 4\*\* mg/m³ \*total dust; \*\*respirable fraction

#### Additional information

The lists that were valid during the compilation were used as basis.

### **Exposure controls**

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,

corresponding > 480 minutes of permeation time according to EN 374);

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

#### Eve protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended,

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Form:

liquid

Colour:

silver colours

Odour:

characteristic

Odour threshold:

not determined

pH value:

not determined

Freezing point:

not determined

Boiling point:

146 °C (Information applies to the solvent)

Flash point:

44 °C (Information applies to the solvent)

Evaporation rate:

not determined

Flammability:

Flammable.

Lower explosion limit:

1.5 %(V)

Upper explosion limit:

10.8 %(V)

Ignition temperature:

315 °C

Vapour pressure:

3.4 mbar (20 °C)

Density:

1.0 g/cm<sup>3</sup> (20 °C)

Relative density:

No data available.

Relative vapour density (air):

not determined



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Solubility in water:

immiscible

Partitioning coefficient n-octanol/water (log Kow):

Study does not need to be conducted.

Self-ignition:

not self-igniting

Thermal decomposition:

not determined

Explosion hazard:

not explosive

Fire promoting properties:

not fire-propagating

Other information

Grain size distribution:

The substance / product is marketed or used in a non-solid or granular form.

# 10. Stability and Reactivity

# Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

# Possibility of hazardous reactions

Stable under normal conditions

### Conditions to avoid

Avoid heat. Avoid sources of ignition.

# Incompatible materials

Substances to avoid: water

# Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

### 11. Toxicological Information

### Information on toxicological effects

Acute toxicity

Primary irritant effect

On the skin: No irritant effect.

On the eye: Irritant effect.

Sensitization: No sensitizing effect known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC

Classification Guidelines for Preparations as issued in the latest version: Irritant



# 12. Ecological Information

### **Toxicity**

Aquatic toxicity: No further relevant information available.

### Persistence and degradability

No further relevant information available.

# Bioaccumulative potential

No further relevant information available.

# Mobility in soil (and other compartments if available)

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

# Results of PBT and vPvB assessment

PBT: No applicable.

vPvB: No applicable.

### Other adverse effects

No further relevant information available.

# 13. Disposal Considerations

### Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging may be re-used to store solely the same product.

Contaminated packages should be disposed of in the same manner as the contents.

# 14. Transport Information

### Land transport

ADR

Hazard class:

3

Packing group:

III

ID number:

UN 1993

Hazard label:

3

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (contains

2-METHOXY-1-METHYLETHYL ACETATE)

RID

Hazard class:

3

Packing group:

[]]

ID number:

UN 1993





Hazard label:

- 3

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (contains

2-METHOXY-1-METHYLETHYL ACETATE)

### Inland waterway transport

ADN

Hazard class:

3

Packing group:

III

ID number:

UN 1993

Hazard label:

2

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (contains

2-METHOXY-1-METHYLETHYL ACETATE)

### Sea transport

**IMDG** 

Hazard class:

3

Packing group:

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ID number:

UN 1993

Hazard label:

3

Marine pollutant:

NO

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (contains

2-METHOXY-1-METHYLETHYL ACETATE)

#### Air transport

**IATA/ICAO** 

Hazard class:

3

Packing group:

III

ID number:

UN 1993

Hazard label:

3

Proper shipping name:

FLAMMABLE LIQUID, N.O.S. (contains

2-METHOXY-1-METHYLETHYL ACETATE)

# 15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

# **Chemical Safety Assessment**

Chemical Safety Assessment not yet performed due to registration timelines

# 16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



### Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R10 Flammable.

R11 Highly flammable.

R36 Imitating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness or dizziness.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed. Vertical lines in the left hand margin indicate an amendment from the previous version.