

Date of revision : 2023/11/01

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Tecmarker Paint MSR Orange

Product code (SDS NO): TM2186_E1-5

Relevant identified uses of the product: Paint

Details of the supplier of the safety data sheet

Manufacturer/Supplier: MARKTEC CORPORATION

Address: 17-35, OMORI-NISHI, 4-Chome, OTA-Ku, TOKYO 143-0015 JAPAN

Telephone number: +81-3-3762-4453

FAX: +81-3-3768-3958

Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Flammable liquids: Category 2

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2

Reproductive toxicity: Category 1B

Specific target organ toxicity – single exposure: Category 3 (Narcotic effects)

Label elements



Signal word: Danger

HAZARD STATEMENT

Highly flammable liquid and vapor

Causes serious eye irritation

May damage fertility or the unborn child

May cause drowsiness or dizziness

PRECAUTIONARY STATEMENT

Prevention

Avoid release to the environment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

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

Use only outdoors or in a well-ventilated area.

Wash contaminated parts thoroughly after handling.

Use personal protective equipment as required.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Do not eat, drink or smoke when using this product.

Response

In case of fire: Use appropriate media to extinguish.

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

Dispose of contents/container in accordance with local/national regulation.

Specific Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.

Section 3. Composition/information on ingredients**Mixture/Substance selection:****Mixture**

Ingredient name	Content (%)	CAS No.
Acetone	30 – 40	67-64-1
Ethyl alcohol	20 – 30	64-17-5
Resin	15 – 25	Registered
Titanium dioxide	1 – 10	13463-67-7
Propyleneglycol monomethyl ether	1 – 10	107-98-2
1-Propanol	1 – 5	71-23-8
Trixylenyl phosphate	1 – 5	25155-23-1
2-Propanol	0.1 – 2	67-63-0
Solvent dyes	< 0.5	Registered

Note : The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

Section 4. First-aid measures**Descriptions of first-aid measures****General measures**

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Do not let the victim rub his eyes.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor/physician.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, alcohol-resistant foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Be careful not to slip on spilled area.

Eliminate all sources of ignition and ventilate the area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Preventive measures for secondary accident

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Prevent entry into waterways, sewers, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

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

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.
Avoid contact with eyes.
Vapors may cause dizziness or suffocation.

Safety Measures

Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear protective gloves/eye protection/face protection.
Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.
Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Do not place in a place where rust is likely to occur.

Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection

Control parameters

Adopted value

(Acetone)

ACGIH(2015) TWA: 250ppm;
STEL: 500ppm (URT & eye irr ; CNS impair)

(Ethyl alcohol)

ACGIH(2009) STEL: 1000ppm (URT irr)

(Titanium dioxide)

ACGIH(2021) TWA: 2.5mg/m³(R) (LRT irr; pneumoconiosis)

(Propyleneglycol monomethyl ether)

ACGIH(2013) TWA: 50ppm;
STEL: 100ppm (Eye & URT irr)

(1-Propanol)

ACGIH(2007) TWA: 100ppm (Eye & URT irr)

(2-Propanol)

ACGIH(2001) TWA: 200ppm;
STEL: 400ppm (Eye & URT irr; CNS impair)

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Orange

Odor: Alcoholic odor

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: 56°C

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point: -18°C

Auto-ignition temperature: 270°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.93g/cm³(15°C)

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Vapors may catch fire and explode.

Conditions to avoid

Conditions to avoid data is not available.

Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Product]

Category 2, Causes serious eye irritation

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Acetone)

Category 2

(1-Propanol)

Category 1

(2-Propanol)

Category 2

Sensitization

Skin sensitization

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Solvent dyes)

Category 1

Germ cell mutagenicity

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Solvent dyes)

Category 2

Carcinogenicity

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Solvent dyes)

Category 2

[IARC]

(Ethyl alcohol)

Group 1 : Carcinogenic to humans

(Titanium dioxide)

Group 2B : Possibly carcinogenic to humans

(2-Propanol)

Group 3 : Not classifiable as to its carcinogenicity to humans

(Solvent dyes)

Group 3 : Not classifiable as to its carcinogenicity to humans

[ACGIH]

(Acetone)

A4(2015) : Not Classifiable as a Human Carcinogen

(Ethyl alcohol)

A3(2009) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Titanium dioxide)

A3(as Finescale particles)(2021) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Propyleneglycol monomethyl ether)

A4(2013) : Not Classifiable as a Human Carcinogen

(1-Propanol)

A4(2007) : Not Classifiable as a Human Carcinogen

(2-Propanol)

A4(2001) : Not Classifiable as a Human Carcinogen

[EU]

(Solvent dyes)

Category 2; Substances suspected human carcinogens

Reproductive toxicity

[Product]

Category 1B, May damage fertility or the unborn child

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Trixylenyl phosphate)

Category 1B

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Category 3, May cause drowsiness or dizziness

[Data for components of the product]

[cat.3 (narcotic effects)]

[Table 3 of Annex VI to the CLP Regulations]

(Acetone)

Category 3, Narcotic effects

(Propyleneglycol monomethyl ether)

Category 3, Narcotic effects

(1-Propanol)

Category 3, Narcotic effects

(2-Propanol)

Category 3, Narcotic effects

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Data for components of the product]

Hazardous to the aquatic environment, long-term (chronic)

[Table 3 of Annex VI to the CLP Regulations]

(Solvent dyes)

Category 4

Water solubility

(Acetone)

100 g/100 ml (PHYSPROP_DB, 2005)

(Ethyl alcohol)

miscible (ICSC, 2000)

(Titanium dioxide)

none (ICSC, 2002)

(Propyleneglycol monomethyl ether)

very good (ICSC, 1997)

(1-Propanol)

100 g/100 ml (PHYSPROP_DB, 2005)

(Trixylenyl phosphate)

0.89mg/L (25°C) (PHYSPROP Database, 2018)

(2-Propanol)

In water, infinitely soluble (25°C) (HSDB, 2013)

Persistence and degradability

[Data for components of the product]

(Ethyl alcohol)

Rapidly degradable (BOD_Degradation : 89% (METI existing chemical safety inspections, 1993))

(Trixylenyl phosphate)

Not rapidly degradable (BOD_Degradation : 0% (CSCL DB, 2001))

(2-Propanol)

Rapidly degradable (Degradation : 86% (METI existing chemical safety inspections, 1993))

Bioaccumulative potential

[Data for components of the product]

(Acetone)

log Pow=-0.24 (ICSC, 2009)

(Ethyl alcohol)

log Pow=-0.32 (ICSC, 2000)

(1-Propanol)

log Pow=0.25 (ICSC, 1999)
(Trixylenyl phosphate)
BCF=466.4 (Check & Review, Japan)
(2-Propanol)
log Pow=0.05 (ICSC, 1999)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Avoid release to the environment.

Dispose of contents/container in accordance with local/national regulation.

Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number : 1263

UN Proper Shipping Name :

PAINT or PAINT RELATED MATERIAL

Class or division (Transport hazard class) : 3

Packing group : II

ERG GUIDE No.: 127

Environmental hazards

Marine pollutants (yes/no) : no

Section 15. Regulatory Information

Other regulatory information

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Regulatory information in this section are limited to intentional ingredient(s), but does not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
IATA Dangerous Goods Regulations (64th Edition) 2023
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2022 TLVs and BEIs. (ACGIH)
Supplier's data/information

General Disclaimer

To the best of our knowledge, the information contained here in is accurate. However, we assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user. All material may present unknown hazards and should be used in

caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).