

Date of revision : 2025/04/02

Safety Data Sheet

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

Product identifier:

Product name: Super Check Color Contrast Penetrant UP-GIII•T(J)

Product code (SDS NO): CP075_E1-7

Relevant identified uses of the product: Non Destructive Testing

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

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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 4

HEALTH HAZARDS

Germ cell mutagenicity: Category 1B

Carcinogenicity: Category 1B

Aspiration hazard: Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 3

Hazardous to the aquatic environment, long-term (chronic): Category 3

Label elements



Signal word: Danger

HAZARD STATEMENT

Combustible liquid

May cause genetic defects

May cause cancer

May be fatal if swallowed and enters airways

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

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.

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

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

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

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.

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

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.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

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

Heating may cause fire.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.
Plasticizer	20 – 30	Registered
n-Undecane	15 – 25	1120-21-4
Hydrocarbon solvents	15 – 25	Registered
n-dodecane	15 – 25	112-40-3
Surfactant	10 – 20	Registered
n-Decane	5 – 15	124-18-5
Diethylene glycol monobutyle ether	4.8	112-34-5
Solvent azo dyes	1 – 10	Registered
Coal tar naphtha	< 5	65996-79-4
Naphthalene	< 0.5	91-20-3

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.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN (or hair)

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

Do NOT induce vomiting.

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.

(Protective measures against fire and explosion)

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

(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.

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

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

ACGIH

(Diethylene glycol monobutyle ether)

TWA: 10ppm(IFV) (Hematologic, liver & kidney eff)

(Naphthalene)

TWA: 10ppm (URT irr; cataracts; hemolytic anemia)

Notation

(Naphthalene)

Skin

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: Red

Odor: Bland oily odor

Melting point/Freezing point data is not available.

Boiling point or initial boiling point: 218°C

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

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

Flash point: 67°C

Auto-ignition temperature: 220°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity: 3.4mm²/s(38°C)

Solubility:

Solubility in water: Soluble

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

Vapor pressure data is not available.

Density and/or relative density: 0.85g/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

Acute toxicity (Oral)

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Naphthalene)

Category 4

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Diethylene glycol monobutyle ether)

Category 2

[Company proprietary data]

(Plasticizer)

rabbit slight irritation (EU-RAR)

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[Product]

Category 1B, May cause genetic defects

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Coal tar naphtha)

Category 1B

Carcinogenicity

[Product]

Category 1B, May cause cancer

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Coal tar naphtha)

Category 1B

(Naphthalene)

Category 2

[IARC]

(Naphthalene)

Group 2B : Possibly carcinogenic to humans

[ACGIH]

(Naphthalene)

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

[EU]

(Coal tar naphtha)

Category 1B; Substances presumed to have carcinogenic potential for humans

(Naphthalene)

Category 2; Substances suspected human carcinogens

[Company proprietary data]

Solvent azo dyes

Metabolic studies on some Azo-dyes have detected reduction of azo bonds to aromatic amines.

It is prudent to assume that the product could metabolize to aromatic amines of the REACH list of matches.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard

[Product]

Category 1, May be fatal if swallowed and enters airways

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Product]

Category 3, Harmful to aquatic life

Category 3, Harmful to aquatic life with long lasting effects

[Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

[Table 3 of Annex VI to the CLP Regulations]

(Naphthalene)

Category 1

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

[Table 3 of Annex VI to the CLP Regulations]

(Naphthalene)

Category 1

Water solubility

(Plasticizer)

< 0.01 g/100 mL (20°C) (source: ICSC, 2003)

(n-Decane)

none (source: ICSC, 1998)

(Diethylene glycol monobutyle ether)

not poorly water-soluble (1000000 mg/L) (source: NITE)

(Naphthalene)

very poor (20°C) (source: ICSC, 2015)

Persistence and degradability

[Data for components of the product]

(Plasticizer)

Rapidly degradable (Degradation rate: 74% (by BOD)) (source: NITE)
(Naphthalene)

Not rapidly degradable (Degradation rate: 2% (by BOD)) (Guidelines specified by the
Chemical Substances Control Law, GLP) (source: NITE)

Bioaccumulative potential

[Data for components of the product]

(Plasticizer)

log Pow: 8.8 (source: ICSC, 2003)

(n-Undecane)

log Pow: 6.5 (source: NITE)

(n-Decane)

log Pow: 5.01 (source: NITE)

(Diethylene glycol monobutyle ether)

log Pow: 0.3 (source: ICSC, 2004)

(Naphthalene)

log Pow: 3.35 (source: ICSC, 2015)

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 : Not applicable

UN Proper Shipping Name : Not applicable

Class or division (Transport hazard class) : Not applicable

Packing group : Not applicable

ERG GUIDE No.: 171

Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

Section 15. Regulatory Information

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

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 23rd edit., 2023 UN
IATA Dangerous Goods Regulations (66th Edition) 2025
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 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 01/12/2023 and Commission delegated regulation (EU) 2024/197 (ATP21)).