

SAFETY DATA SHEET

Product Name: RTC[®]-12 Revision Date: Jan 1, 2020 According to GB/T16483-2008 and GB/T17519-2013 Version: 1.1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	RTC [®] -12		
Chemical Name:	2,2,4-Trimethyl-1,3-Pentanediol monoisobutyrate		
Company Name:	Runtai Chemical (Taixing) Co., Ltd.		
Address:	No.17, Wenhua West Road, Taixing Economic Development		
	Zone, Jiangsu Province, China		
Postcode:	225400		
Phone:	400-626-0050		
Fax:	0523-80575519		
URL:	www.runtaichem.com		

Recommended use of the chemical and restrictions on use

Recommended use: Coalescing agent for emulsions

Restrictions on use: Unknown.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

Chemical name	CAS NO.	Mol. wt.	Content(w/w)
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4	216.3	≥99.0%

SECTION 4. FIRST AID MEASURES

In case of skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If inhaled: Move to fresh air. Call a physician or poison control centre immediately.

If swallowed: If accidentally swallowed obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed: Unknown.

Notes to physician: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂), Dry chemical, Water spray **Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: Unknown.

Hazardous combustion products: No hazardous combustion products are known.

Specific extinguishing methods: Unknown.

Special protective equipment for firefighters: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions: Avoid release to the environment.

Methods and materials for containment and cleaning up: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Unknown.

Advice on safe handling: Do not breathe vapours or spray mist.

Do not get on skin or clothing.

Do not swallow.

Use only with adequate ventilation.

Wash thoroughly after handling.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage: Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures: should be sufficient to control airborne levels.

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks: Wear suitable gloves.

Eye protection: Safety glasses.

Protective measures: Remove respiratory and skin/eye protection only after vapours have been cleared from the area.

Ensure that eye flushing systems and safety showers are located close to the working place.

Use personal protective equipment as required.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Colour: colourless liquid

Odour: slight

Melting point/freezing point: < -50℃

Boiling point/boiling range: 252 - 262℃

Flash point: 122°C (Method: Seta closed cup)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable

Self-ignition: 388 °C (Method: ASTM E659)

Vapour pressure: 1.3 Pa (20℃)

Relative density: 0.9464 (20°C)

Water solubility: 0.5 - 3.79 g/l (25℃)

Partition coefficient: Noctanol/water: log Pow: 2.34 - 3.2 (25°C)

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity, dynamic: 12.9 mPa.s (25℃)

Viscosity, kinematic: 13.6 mm2/s (25°C)

Explosive properties: Not classified

Oxidizing properties: Not classified

Surface tension: 28.6 mN/m, 22°C

SECTION 10. STABILITY AND REACTIVITY

Reactivity: None reasonably foreseeable.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Stable Unknown.

Conditions to avoid: Unknown.

Incompatible materials: Strong oxidizing agents, strong acid, strong base

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Components: 2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Acute oral toxicity: LD50 Oral (Rat): > 2,000 mg/kg Acute inhalation toxicity: LC50 (Rat): > 0.12 mg/l Acute dermal toxicity: LD50 Dermal (Rabbit): > 2,000 mg/kg Skin corrosion/irritation: No data available Serious eye damage/eye irritation: No data available Carcinogenicity: This information is not available. Reproductive toxicity: No data available STOT - single exposure: No data available STOT - repeated exposure: No data available

Aspiration toxicity: No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and degradability:

Biodegradability: Biodegradation: 70.73 %

Exposure time: 28 d

Method: Ready Biodegradability: CO2 Evolution Test

Bioaccumulative potential: No data available.

Mobility in soil: log Koc: 2.69 - 3.6 (Method: QSAR model)

Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR: Not regulated as a dangerous good

IMO IMDG-Code(2018): The substrace is not subject to IMO IMDG Code.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name: 2,2,4-TRIMETHYL-1,3-PENTANEDIOL-1-ISOBUTYRATE

Pollution category: Y

Ship type: 2

ADG: Not regulated as a dangerous good

Packing method: 200kg、950kg

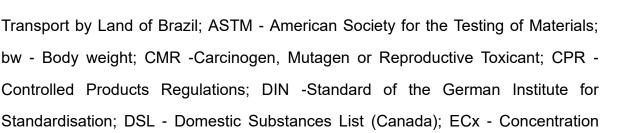
Notes for transport: Before transportation, check whether the packaging container is completely sealed. During transportation, ensure that the container does not leak, collapse, fall or damage. It is strictly prohibited to mix with oxidants, acids and alkalis for mixed transportation.

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories: DSL: All components of this product are on the Canadian DSL AICS: On the inventory, or in compliance with the inventory ENCS: On the inventory, or in compliance with the inventory ISHL: On the inventory, or in compliance with the inventory KECI: On the inventory, or in compliance with the inventory PICCS: On the inventory, or in compliance with the inventory IECSC: On the inventory, or in compliance with the inventory IECSC: On the inventory, or in compliance with the inventory TCSI: On the inventory, or in compliance with the inventory TSCA: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for



associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan);

ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC -Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP -National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH -Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - SelfAccelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous

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Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.