

SAFETY DATA SHEET TidyPen2

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name TidyPen2

Product number MCC-P02D, MCC-P02, MCC-PEN2

Internal identification Prototype 7-100-7

Recommended use of the chemical and restrictions on use

Application Cleaning agent. For use in industrial installations only.

Details of the supplier of the safety data sheet

Supplier MicroCare Corporation

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

Tel: +1 860-827-0626 Fax: +1 860-893-1930 techsupport@microcare.com

Manufacturer MICROCARE CORPORATION

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

Tel: + 1 800 638 0125, +1 860-827-0626

Fax: +1 860-893-1930 techsupport@microcare.com

Emergency telephone number

Emergency telephone CHEMTREC 1-800-424-9300 (within the U.S.)

+1 703-741-5970 (from anywhere in the world)

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

Human health See Section 11 for additional information on health hazards.

Physicochemical Vapors may form explosive mixtures with air.

Label elements

Hazard symbols





Signal word Danger

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

Precautionary statements P261 Avoid breathing vapor/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 If on skin: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label

information

EUH210 Safety data sheet available on request. RCH001a For use in industrial installations

only.

Contains d-LIMONENE

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

60-100%

CAS number: 53605-94-0

Classification

Eye Irrit. 2A - H319

d-LIMONENE 10-30%

CAS number: 5989-27-5

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Not relevant.

The full text for all hazard statements is displayed in Section 16.

Composition comments TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage

(concentration) of composition has been withheld as a trade secret in accordance with

paragraph (i) of CFR 1900.1200

Composition

4. First-aid measures

Description of first aid measures

General information Not considered to be a significant hazard due to the small quantities used. Move affected

person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Keep affected person warm

and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink.

Never give anything by mouth to an unconscious person. Consult a physician for specific

advice.

Skin Contact Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and

airway.

Ingestion Ingestion of large amounts may cause unconsciousness. May cause nausea, headache,

dizziness and intoxication.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May

cause skin irritation/eczema.

Eye contact May cause temporary eye irritation. Irritating to eyes. Symptoms following overexposure may

include the following: Redness. Pain.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable.

Unsuitable extinguishing

media

products

None known.

Special hazards arising from the substance or mixture

Specific hazardsConsidering the size of the packaging, the risk is regarded as minimal. Combustible liquid.

Hazardous combustion

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapors. Oxides of carbon.

Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water. Use water to keep fire

exposed containers cool and disperse vapors.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautionsConsidering the size of the packaging, the risk is regarded as minimal. Wear suitable

protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or

apron, as appropriate. Provide adequate ventilation.

Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the

ground. Contain spillage with sand, earth or other suitable non-combustible material.

Methods and material for containment and cleaning up

Methods for cleaning up Considering the size of the packaging, the risk is regarded as minimal. Wear suitable

protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal

containers and seal securely.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and

eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air

contamination is above an acceptable level.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep

container tightly closed. Keep away from heat, sparks and open flame. Keep out of the reach

of children.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

Reference to other sections. Store away from incompatible materials (see Section 10).

8. Exposure controls/Personal protection

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety

glasses.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly

remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection
No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear liquid.

Color Colorless to pale yellow.

Odor Characteristic. Orange.

Odor threshold No information available.

pH No information available.

Melting point No information available.

Initial boiling point and range No information available.

Flash point No information available.

Evaporation rate No information available.

Evaporation factor No information available.

Upper/lower flammability or No info

explosive limits

No information available.

Other flammability The product is not flammable.

Vapor pressureNo information available.

Vapor density No information available.

Relative density No information available.

Bulk density No information available.

Solubility(ies) No information available.

Partition coefficient No information available.

Auto-ignition temperature No information available.

Decomposition Temperature No information available.

Viscosity No information available.

Global Warming Potential

(GWP)

Refractive indexNo information available.

Particle size Not applicable.

Molecular weight No information available.

Volatility No information available.

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound This product contains a maximum VOC content of 95 g/l.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with the following materials:

Strong oxidizing agents. Strong alkalis. Strong mineral acids.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition

products

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Toxicological effectsThis product has low toxicity. Only large quantities are likely to have adverse effects on

human health.

Other health effects There is no evidence that the product can cause cancer.

Inhalation May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and

nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion May cause discomfort if swallowed. This product has low toxicity. Only large quantities are

likely to have adverse effects on human health.

Skin Contact Product has a defatting effect on skin. May cause skin irritation/eczema.

Eye contact Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain,

tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that

of fine dust in the eyes.

Route of exposure Skin and/or eye contact Ingestion. Inhalation

Target Organs Skin Eyes Respiratory system, lungs

Medical Symptoms Skin irritation. Gas or vapor in high concentrations may irritate the respiratory system.

Symptoms following overexposure may include the following: Headache. Fatigue. Nausea,

vomiting.

Toxicological information on ingredients.

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

Toxicological effects

No information available.

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

5.0

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅ 5,000.0

mg/kg)

Species

Rat

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ dust/mist mg/l)

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Not determined.

Serious eye damage/irritation

Serious eye

Not determined.

damage/irritation

Respiratory sensitization

Respiratory sensitization Not determined.

Skin sensitization

Skin sensitization Not determined.

Germ cell mutagenicity

Genotoxicity - in vitroNo information available.

Genotoxicity - in vivo No information available.

Carcinogenicity

IARC carcinogenicity No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity -

No information available.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

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Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin Contact No specific symptoms known.

Eye contact Causes eye irritation.

Acute and chronic health

hazards

No specific health hazards known.

Route of exposure No data available.

Target Organs No specific target organs known.

Medical Symptoms No specific symptoms known.

d-LIMONENE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,000.0

Species Rat

Notes (oral LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

1,000.0

(LC₅₀ vapours mg/l)

Notes (inhalation LC50) Based on available data the classification criteria are not met.

ATE inhalation (vapours

mg/l)

1,000.0

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye

Based on available data the classification criteria are not met.

damage/irritation

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization May cause skin sensitization or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

Inhalation No specific symptoms known.

Ingestion May cause sensitization or allergic reactions in sensitive individuals. May cause

irritation.

Skin Contact May cause skin sensitization or allergic reactions in sensitive individuals. Redness.

Irritating to skin.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target Organs No specific target organs known.

Medical considerations Skin disorders and allergies.

12. Ecological information

Ecotoxicity Not considered to be a significant hazard due to the small quantities used.

Toxicity Very toxic to aquatic organisms.

Ecological information on ingredients.

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Chronic aquatic toxicity

Chronic toxicity - fish early Not available.

life stage

Short term toxicity -

Not available.

embryo and sac fry stages

Chronic toxicity - aquatic

Not available.

invertebrates

d-LIMONENE

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects. **Toxicity**

Acute aquatic toxicity

EC₅₀, 96 hours: 0.69 mg/l, Pimephales promelas (Fat-head Minnow) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 0.42 mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Ecological information on ingredients.

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

Persistence and

degradability

The product is readily biodegradable.

Biodegradation

- Degradation 91: 28 days

d-LIMONENE

Persistence and degradability

The degradability of the product is not known.

Biodegradation

- Degradation 92.7: 21 days

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

Bio-Accumulative Potential Not available.

Partition coefficient Pow: 1.29

d-LIMONENE

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Mobility in soil

Mobility The product is partly miscible with water and may spread in the aquatic environment.

Ecological information on ingredients.

Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

Mobility Not available.

Adsorption/desorption coefficient

Not available.

d-LIMONENE

Mobility No data available.

Other adverse effects

Other adverse effects The product contains volatile organic compounds (VOCs) which have a photochemical ozone

creation potential.

Ecological information on ingredients.

d-LIMONENE

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority. Waste is suitable for incineration. When handling waste, the safety precautions applying to handling of the product

should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Reuse or recycle products wherever possible.

14. Transport information

DOT transport notesNot regulated.

Transport hazard class(es)

Transport Labels (International)

Not regulated.

Transport in bulk according to Not applicable. No information required.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

OSHA Highly Hazardous Chemicals Not listed. **US State Regulations** California Proposition 65 Carcinogens and Reproductive Toxins Not listed. California Air Toxics "Hot Spots" (A-I) Not listed. California Air Toxics "Hot Spots" (A-II) Not listed. California Directors List of Hazardous Substances Not listed. Massachusetts "Right To Know" List Not listed. Rhode Island "Right To Know" List Not listed. Minnesota "Right To Know" List Not listed. New Jersey "Right To Know" List Not listed. Pennsylvania "Right To Know" List Not listed. **Inventories** Canada - DSL/NDSL DSI US - TSCA Yes Australia - AICS Not listed. Japan - ENCS Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

Not listed.

Not listed.

SARA 313 Emission Reporting

CAA Accidental Release Prevention

SARA (311/312) Hazard Categories

Korea - KECI

Not listed.

China - IECSC

Not listed.

Philippines - PICCS

Not listed.

Taiwan - TCSI

Not listed.

New Zealand - NZIOC

Not listed.

16. Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 7/20/2020

Revision 48

Supersedes date 7/15/2020

SDS No. BULK - P02

SDS status Approved.

Hazard statements in full H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.