

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 1 / 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. product identifiers

Article No. (manufacturer/supplier): 6 00010 00000
Identification of the substance or mixture dilution epple 456

REACH registration No. 01-2119457558-25

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Cleaning agent for cleaning parts and/or surfaces

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

E. Epple & Co. GmbH

Hertzstr. 8

71083 Herrenberg

Telephone: +49 7032 / 9771-17

Telefax: +49 7032 / 9771-60

www.epple-chemie.de

Dept. responsible for information:

laboratory

E-mail (competent person)

labor@epple-chemie.de

1.4. Emergency telephone number

Emergency telephone number +49 7032 / 9771-0

Only available during office hours. (08:00am to 16:00pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2 / H225

Flammable liquids

Highly flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

STOT SE 3 / H336

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary statements

P210

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

P261

Avoid breathing vapours.

P280

Wear protective gloves.

P304 + P340

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

P370 + P378

In case of fire: Use extinguishing powder or sand to extinguish.

P501

Dispose of contents/container in accordance with local/regional/ national/international regulations.

contains:

propan-2-ol

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.1. Substances

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 2 / 8

Description Solvents/Thinner

Hazardous ingredients

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	
INDEX No.	classification: // Remark	
200-661-7	01-2119457558-25	
67-63-0	propan-2-ol	74,9 - 100
603-117-00-0	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

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

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 3 / 8

for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Floors must be electrically conductive.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

propan-2-ol
INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

TWA: 999 mg/m³; 400 ppm
STEL: 1250 mg/m³; 500 ppm

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

propan-2-ol
INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0
DNEL long-term dermal (systemic), Workers: 888 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 500 mg/m³

PNEC:

propan-2-ol
INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0
PNEC aquatic, freshwater: 140,9 mg/l
PNEC aquatic, marine water: 140,9 mg/l
PNEC aquatic, intermittent release: 140,9 mg/l

*

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 4 / 8

PNEC, Soil: 28 mg/kg
PNEC sewage treatment plant (STP): 2251 mg/l
PNEC Secondary Poisoning: 160 mg/kg food

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number. Recommendation: Half-face mask (DIN EN 140) Filter type: ABEK-P2

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

*

Appearance:

Physical state: liquid
Colour: translucent

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: -88 °C

Initial boiling point and boiling range: 82 °C

Flash point: 12 °C

Evaporation rate: not determined

Flammability (solid, gas):
burning time (s): not determined

Upper/lower flammability or explosive limits:

Lower explosion limit: 2 Vol-%

Upper explosion limit: 13,4 Vol-%

Vapour pressure at 20 °C: 42,6 mbar

Vapour density: not applicable

Relative density:

Density at 20 °C: 0,79 g/cm³

Solubility(ies):

Water solubility (g/L) at 20 °C: completely miscible

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 425 °C

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 5 / 8

Decomposition temperature: not applicable
Viscosity 11 s 4 mm
Method: DIN 53211
Explosive properties: not applicable
Oxidising properties: not applicable

9.2. **Other information**

SECTION 10: Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. **Information on toxicological effects**

*

Acute toxicity

propan-2-ol

oral, LD50, Rat: 5840 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: 13900 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 25 mg/l (6 h)

Method: OECD 403

skin corrosion/irritation; Serious eye damage/eye irritation

propan-2-ol

eyes: evaluation Irritating to eyes.

Method: OECD 405

Skin: evaluation no skin irritation

Method: OECD 404

Respiratory or skin sensitisation

propan-2-ol

Skin, Guinea pig; ; evaluation not sensitising.

Method: OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

propan-2-ol

Carcinogenicity; evaluation negative.

Method OECD 451

Reproductive toxicity; evaluation negative.

Method OECD 415

Reproductive toxicity; evaluation negative.

Method OECD 416

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 6 / 8

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

propan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 9640 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, LC50, Daphnia magna (Big water flea): 9714 mg/l (24 h)

Method: OECD 202

Algae toxicity, EC50, Scenedesmus subspicatus: > 100 mg/l (72 h)

Bacteria toxicity, EC50: > 100 mg/l

Long-term Ecotoxicity

propan-2-ol

Algae toxicity, NOEC: 1000 mg/l (8 d)

12.2. Persistence and degradability

propan-2-ol

Biodegradation: 53 % (5 d); evaluation Readily biodegradable

12.3. Bioaccumulative potential

propan-2-ol

Partition coefficient: n-octanol/water: 0,05

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

140603 other solvents and solvent mixtures

packaging

Dispose of packaging and contaminated filters at a official hazardous waste incinerator facility.

Recommendation:

Waste codes / waste designations according to EWC / AVV: 15 01 10*

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 7 / 8

SECTION 14: Transport information

- 14.1. **UN number** *
UN 1219
- 14.2. **UN proper shipping name** *
Land transport (ADR/RID): Isopropanol
Sea transport (IMDG): ISOPROPANOL (ISOPROPYL ALCOHOL)
Air transport (ICAO-TI / IATA-DGR): Isopropanol
- 14.3. **Transport hazard class(es)**
3
- 14.4. **Packing group**
II
- 14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable
- 14.6. **Special precautions for user** *
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**
tunnel restriction code D/E
- Sea transport (IMDG)**
EmS-No. F-E, S-D
- Air transport (ICAO-TI / IATA-DGR)**
- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
- Directive 2010/75/EU on industrial emissions**
VOC-value (in g/L): 785
- National regulations**
- Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Substance/product listed in the following inventories:**
AICS gelistet (AICSJ-EN.rtf)
DSL gelistet (DSLJ-EN.rtf)
IECSC gelistet (IECSCJ-EN.rtf)
KECI gelistet (KECIJ-EN.rtf)
MITI gelistet (MITIJ-EN.rtf)
PICCS gelistet (PICCSJ-EN.rtf)
Listet in TOXIC SUBSTANCES CONTROL ACT (TSCA)
- 15.2. **Chemical Safety Assessment** *
For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
200-661-7 67-63-0	propan-2-ol	01-2119457558-25

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: 6 00010 00000 dilution epple 456
Print date 17.10.2018 Revision date 20.09.2018
Version 3.1 Issue date 20.09.2018

EN
Page 8 / 8

SECTION 16: Other information

*

Full text of classification in section 3:

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.

Abbreviations and acronyms

n.a. = not applicable
n.b. = not determined

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version