



1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

TIP TOP CLEANIG AGENT T 120

Art.-No

590 3220, 590 3230, 590 3240

Use of the substance/preparation

Processing agent

Company/undertaking identification

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Responsible Department:

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards identification

Classification

Indications of danger : Highly flammable, Irritant

R-phrases:

Highly flammable.

Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

GHS:

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Preparation in butanone

Hazardous components

| EC-No. | Chemical name | Quantity |
|--------------|---|----------|
| CAS-No. | Classification | |
| Index No. | GHS classification | |
| REACH-No. | | |
| 201-159-0 | Butanone | < 100 % |
| 78-93-3 | F, Xi R11-36-66-67 | |
| 606-002-00-3 | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | |

Full text of R- and H-phrases: see section 16.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.



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If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Refer for medical treatment.

After contact with skin

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Induce vomiting only upon the advice of a physician.

Immediately give plenty of water (if possible charcoal slurry).

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed.

When using, do not eat, drink or smoke.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.

Do not smoke.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection**Exposure limit values****Exposure limits (EH40)**

| CAS-No. | Chemical name | ml/m³ | mg/m³ | F/ml | Category | Origin |
|---------|-----------------------------------|-------|-------|------|---------------|--------|
| 78-93-3 | Butan-2-one (methyl ethyl ketone) | 200 | 600 | | TWA (8 h) | WEL |
| | | 300 | 899 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS-No. | Chemical name | Parameter | Value | Test material | Sampling time |
|---------|---------------|-------------|-----------|---------------|---------------|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine | Post shift |

Exposure controls**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

Do not inhale vapours.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles.

Skin protection

Long sleeved clothing.



9. Physical and chemical properties

General information

| | |
|-----------------|-------------|
| Physical state: | Liquid |
| Colour: | Clear |
| Odour: | Like ketone |

Important health, safety and environmental information

Test method

Changes in the physical state

| | |
|-------------------------|---------------------|
| Melting point: | < - 85 °C |
| Boiling point: | 78,5 - 81 °C |
| Flash point: | - 4 °C |
| Lower explosion limits: | 1,8 vol. % |
| Upper explosion limits: | 11,5 vol. % |
| Ignition temperature: | > 450 °C |
| Vapour pressure: | 100 hPa |
| (at 20 °C) | |
| Density (at 20 °C): | 0,804 - 0,806 g/cm³ |
| Water solubility: | 250 - 290 g/L |
| (at 20 °C) | |
| Viscosity / dynamic: | 0,40 mPa·s |
| (at 20 °C) | |
| Solvent content: | < 100 % |

10. Stability and reactivity

Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.

Materials to avoid

Oxidizing agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Irritating to eyes.
Vapours may cause drowsiness and dizziness.
Repeated exposure may cause skin dryness or cracking.
Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

12. Ecological information

Further information

Ecological injuries are not known or expected under normal use.
Do not flush into surface water or sanitary sewer system.
Low hazard to waters.



13. Disposal considerations

Advice on disposal

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land transport (ADR/RID)

UN number: 1193

Description of the goods

Ethylmethylketone

ADR/RID class: 3

Classification code: F1

Warning plate

Hazard-no.: 33

Hazard label: 3



ADR/RID packing group: II

Limited quantity: LQ4

Tunnel restriction code: D/E

Other applicable information (land transport)

LQ 4: combination packaging: 3 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Tunnel restriction code: D/E

Transport category: 2

Inland waterways transport

UN number: 1193

Description of the goods

Ethylmethylketone

ADNR class: 3

Classification code: F1

Hazard label: 3



Packing group: II

Limited quantity: LQ4

Marine transport

UN number: 1193

Description of the goods

ETHYL METHYL KETONE

IMDG code: 3

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Hazard label: 3



IMDG packing group: II
 EmS: F-E, S-D
 Limited quantity: 1 L / 30 kg

Other applicable information (marine transport)

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

Air transport

UN/ID number: 1193

Description of the goods

ETHYL METHYL KETONE

ICAO/IATA-DGR: 3

Hazard label: 3



ICAO packing group: II
 Limited quantity Passenger: Y305 / 1 L
 IATA-packing instructions - Passenger: 305
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 307
 IATA-max. quantity - Cargo: 60 L

15. Regulatory information**Labelling**

According to EC-regulations the product is to be labelled as follows:

Danger symbols: F - Highly flammable; Xi - Irritant



F - Highly flammable



Xi - Irritant

R phrases

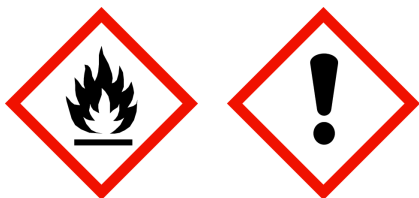
11 Highly flammable.
 36 Irritating to eyes.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

S phrases

09 Keep container in a well-ventilated place.
 16 Keep away from sources of ignition - No smoking.
 35 This material and its container must be disposed of in a safe way.

GHS labelling

Signal word: Danger
 Pictograms: flame; exclamation mark



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/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

EU regulatory information

1999/13/EC (VOC): < 100 %

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3

- H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)