

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

* 1 Identification

· **Product Identifier**

· **Trade Name: Parasafe**

· **Product Number:**

Cat# Description

6030 Parasafe - 24 vials/pkg

6031 Parasafe & Clean Vial Set - 12 sets/pkg

6031-999 Parasafe & Clean Vial Set Custom

6037 Parasafe & Carey Blair Set - 12 sets/pkg

6039 Parasafe - 1 gallon/pkg

6030-100 Parasafe - 100 vials/pkg

6040-100 Mini-Parasafe Fixative – 100 vials

6046-100 Mini-Parasafe Fixative with concentrators – 100 vials + concentrators

· **Relevant identified uses of the substance or mixture and uses advised against:**

· **Product Description:** No further relevant information available.

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Scientific Device Laboratory

411 Jarvis Avenue

Des Plaines, IL 60018

847-803-9495

· **Emergency telephone number:**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) Identification

· **Classification of the substance or mixture:**



Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Health hazard

Muta. 2 H341 Suspected of causing genetic defects.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

(Contd. on page 2)

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Trade Name: Parasafe

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard-determining components of labeling:**
 - Ethanol
 - Proprietary
- **Hazard statements:**
 - H225 Highly flammable liquid and vapor.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H317 May cause an allergic skin reaction.
 - H341 Suspected of causing genetic defects.
 - H335 May cause respiratory irritation.
- **Precautionary statements:**
 - P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 - P240 Ground/bond container and receiving equipment.
 - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 - P242 Use only non-sparking tools.
 - P243 Take precautionary measures against static discharge.
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P264 Wash thoroughly after handling.
 - P271 Use only outdoors or in a well-ventilated area.
 - P272 Contaminated work clothing must not be allowed out of the workplace.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P302+P352 If on skin: Wash with plenty of water.
 - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - P312 Call a poison center/doctor if you feel unwell.
 - P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P332+P313 If skin irritation occurs: Get medical advice/attention.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P337+P313 If eye irritation persists: Get medical advice/attention.
 - P363 Wash contaminated clothing before reuse.
 - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
 - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 - P403+P235 Store in a well-ventilated place. Keep cool.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Unknown acute toxicity:**
 - This value refers to knowledge of known, established toxicological or ecotoxicological values.
 - 0 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

(Contd. on page 3)

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OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

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· NFPA ratings (scale 0 - 4)

 Health = 2
 Fire = 3
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

 Health = 2
 Fire = 3
 Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

* 3 Composition/Information on Ingredients

· Chemical characterization: Substance
· Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

CAS: 64-17-5	Ethanol
RTECS: KQ 6300000	☠ Flam. Liq. 2, H225; ☠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320
	Proprietary
	☠ Acute Tox. 4, H302
	Proprietary
	☠ Muta. 2, H341; ☠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317
	Proprietary
	☠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2B, H320

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures
· General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· After inhalation: In case of unconsciousness place patient stably in the side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

· After swallowing: If swallowed and symptoms occur, consult a doctor.

· Information for doctor
· Most important symptoms and effects, both acute and delayed: No further relevant information available.

· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

 Trade Name: **Parasafe**

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:

64-17-5	Ethanol	1,800 ppm
	Proprietary	6.9 ppm
	Proprietary	0.3 mg/m ³
	Proprietary	11 mg/m ³

· PAC-2:

64-17-5	Ethanol	3300* ppm
	Proprietary	140 ppm
	Proprietary	46 mg/m ³
	Proprietary	120 mg/m ³

· PAC-3:

64-17-5	Ethanol	15000* ppm
	Proprietary	860 ppm
	Proprietary	280 mg/m ³
	Proprietary	700 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

(Contd. on page 5)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

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- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
 Protect from heat.
 Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:** Store in the original container.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.
 Protect from heat and direct sunlight.

- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters:**

- **Components with occupational exposure limits:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

64-17-5Ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
Proprietary	
WEEL	Long-term value: 10 mg/m ³
Proprietary	
REL	See Pocket Guide App. C
TLV	Long-term value: 0.1* mg/m ³ DSEN;*as inhalable fraction and vapor
WEEL	Long-term value: 0.1 mg/m ³ DSEN; (H)

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

- **Exposure controls:**

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing and wash before reuse.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 6)

Safety Data Sheet (SDS)

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Issue date 09/25/2020

Reviewed on 09/25/2020

Trade Name: Parasafe

Select glove material based on penetration times, rates of diffusion and degradation.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Clear

· **Odor:** Alcohol-like

· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** 7.7-8.8

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: ≥50.4 °C (≥122.7 °F)

· **Flash point:** ≥13 °C (≥55.4 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 0.0 Vol %

Upper: 0.0 Vol %

· **Vapor pressure @ 20 °C (68 °F):** ≤59 hPa (≤44.3 mm Hg)

· **Density @ 20 °C (68 °F):** 0.9313 g/cm³ (7.7717 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

Trade Name: Parasafe

- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
- Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- Dynamic:** Not determined.
- Kinematic:** Not determined.
- **Solvent content:**
- Organic solvents:** 74.7 %
- VOC content:** 74.70 %
- 819.8 g/l / 6.84 lb/gal
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

LD/LC50 values that are relevant for classification:
64-17-5Ethanol

Oral	LD50	7,060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Inhalative	LC50/4 h	20,000 mg/l (Rat)
	LC50/96 hours	12,900-15,300 mg/l (Trout)
Proprietary		
Oral	LD50	12,565 mg/kg (Rat)
Dermal	LD50	11,890 mg/kg (Rabbit)
Proprietary		
Oral	LD50	7,070 mg/kg (Rat)
Dermal	LD50	10,000 mg/kg (Rabbit)

(Contd. on page 8)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

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Trade Name: Parasafe

Proprietary		
Oral	LD50	3,530 mg/kg (Rat)
<ul style="list-style-type: none"> · Primary irritant effect: · On the skin: Irritant to skin and mucous membranes. May cause an allergic skin reaction. · On the eye: Irritating effect. · Sensitization: Sensitization possible through skin contact. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant · Carcinogenic categories: · IARC (International Agency for Research on Cancer): The IARC (the International Agency for Research on Cancer) concluded that ethanol found alcoholic beverages to be Group 1 - Carcinogenic to humans. All other instances it is not consider carcinogenic. Group 1 - Carcinogenic to humans Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to its carcinogenicity to humans Group 4 - Probably not carcinogenic to humans 		
64-17-5	Ethanol	1
<ul style="list-style-type: none"> · NTP (National Toxicology Program): None of the ingredients are listed. · OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. 		

12 Ecological Information

<ul style="list-style-type: none"> · Toxicity: · Aquatic toxicity: 	
64-17-5Ethanol	
EC50	34,900 mg/l (Daphnia)
<ul style="list-style-type: none"> · Persistence and degradability: No further relevant information available. · Behavior in environmental systems: · Bioaccumulative potential: No further relevant information available. · Mobility in soil: No further relevant information available. · Additional ecological information: · General notes: Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. · Results of PBT and vPvB assessment: · PBT: Not applicable. · vPvB: Not applicable. · Other adverse effects: No further relevant information available. 	

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 9)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

Trade Name: Parasafe

Observe all federal, state and local environmental regulations when disposing of this material.

- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

- **UN-Number:** UN1170
- **DOT, ADR/ADN, IMDG, IATA** UN1170
- **UN proper shipping name:** Ethanol mixture
- **DOT** UN1170 ETHANOL (ETHYL ALCOHOL) mixture
- **ADR/ADN** ETHANOL (ETHYL ALCOHOL) mixture
- **IMDG** ETHANOL mixture
- **IATA**
- **Transport hazard class(es):**
- **DOT**



- **Class:** 3 Flammable liquids
- **Label:** 3

 · **ADR/ADN**


- **Class:** 3 (F1) Flammable liquids
- **Label:** 3

 · **IMDG, IATA**


- **Class:** 3 Flammable liquids
- **Label:** 3
- **Packing group:** III
- **DOT, ADR/ADN, IMDG, IATA** III
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E,S-D
- **Stowage Category** A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

(Contd. on page 10)

Safety Data Sheet (SDS)

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Issue date 09/25/2020

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Trade Name: Parasafe
· Transport/Additional information:
· DOT
· Quantity limitations:

 On passenger aircraft/rail: 60 L
 On cargo aircraft only: 220 L

· ADR/ADN
· Excepted quantities (EQ):

 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· IMDG
· Limited quantities (LQ):
· Excepted quantities (EQ):

 5L
 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml
 UN 1170 ETHANOL (ETHYL ALCOHOL) MIXTURE, 3, III

· UN "Model Regulation":

*15 Regulatory Information

· Safety, health and environmental regulations/legislation specific for the substance or mixture:
· SARA (Superfund Amendments and Reauthorization):
· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients are listed.

· California Proposition 65:
· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· New Jersey Right-to-Know List:

64-17-5 Ethanol

Proprietary

· New Jersey Special Hazardous Substance List:

64-17-5 Ethanol

CA, MU, TE, F3

· Pennsylvania Right-to-Know List:

64-17-5 Ethanol

Proprietary

(Contd. on page 11)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

Trade Name: Parasafe

· Pennsylvania Special Hazardous Substance List: None of the ingredients are listed.
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 · **Carcinogenic categories:**

· EPA (Environmental Protection Agency): None of the ingredients are listed.
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 · **TLV (Threshold Limit Value established by ACGIH):**

64-17-5 Ethanol	A3
Proprietary	A4

 · **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

 · **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

 · **Hazard pictograms:**

 · **Signal word:** Danger

 · **Hazard-determining components of labeling:**

 Ethanol
 Proprietary

 · **Hazard statements:**

 H225 Highly flammable liquid and vapor.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H341 Suspected of causing genetic defects.
 H335 May cause respiratory irritation.

 · **Precautionary statements:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P362+P364	Take off contaminated clothing and wash it before reuse.

(Contd. on page 12)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

Trade Name: Parasafe

P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

· Information about limitation of use:**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of last revision/ revision number: 09/25/2020 / 7**· Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· * Data compared to the previous version altered.

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