



Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

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

1.1 Product identifier

Trade name: *Maspra Tip-Clean*

UFI: 9XER-M0WA-Q004-NGFJ

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

No further relevant information available.

Application of the substance / the mixture

Cleaning material/ Detergent

Solvents

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Gemini GmbH

Rheinstraße 7

88046 Friedrichshafen

Germany

Tek. +49 7541 9815615

www.gemini-airless.de

Further information obtainable from: Product safety department

1.4 Emergency telephone number:

Gemini Helpline +49(0)7541-7815615 during the normal opening hours (Mo-Fr, 9.00 am - 4 pm).

SECTION 2: Hazards identification

2.1 Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 1)

Hazard pictograms

GHS02 GHS07

Signal word Warning**Hazard-determining components of labelling:**

benzyl alcohol
1-methoxy-2-propanol
2-butoxyethanol

Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
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.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** This substance is neither persistent, bioaccumulative nor toxic (PBT).**vPvB:** Not applicable**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Preparation****Description:** Mixture of subsequent listed substances and harmless additives.

Dangerous components:		
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336	50- <100%
CAS: 100-51-6 EINECS: 202-859-9	benzyl alcohol Acute Tox. 3, H331; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317 ATE: LD50 oral: 1,200 mg/kg	10-25%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5- <10%
CAS: 123-42-2 EINECS: 204-626-7	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	≤2.5%

(Contd. on page 3)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

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Version number 1.6 (replaces version 1.5)

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Trade name: Maspra Tip-Clean

(Contd. of page 2)

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:***Immediately remove any clothing soiled by the product.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.**Consult a doctor and show this safety data sheet if symptoms occur or in cases of doubt.**Take affected persons out into the fresh air.**Do not leave affected persons unattended.**Personal protection for the First Aider.***After inhalation:***Supply fresh air; consult doctor in case of complaints.**In case of unconsciousness place patient stably in side position for transportation.***After skin contact:***In case of contact with skin, rinse immediately with plenty of soap and water. Take off contaminated clothing and shoes. Consult a doctor if symptoms occur. Wash clothing and shoes before wearing again.**After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.***After swallowing:***Rinse out mouth with water.**Drink 1-2 glass of water.**Do not induce vomiting; call for medical help immediately.***4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.***4.3 Indication of any immediate medical attention and special treatment needed***Symptomatic treatment.**Medical supervision for at least 48 hours.***SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:***CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***For safety reasons unsuitable extinguishing agents:** *Water with full jet.***5.2 Special hazards arising from the substance or mixture***Formation of toxic/irritating gases possible when heated or in case of fire.**Decomposition products see chapter 10.***5.3 Advice for firefighters****Protective equipment:** *Wear self-contained respiratory protective device.***Additional information***Collect contaminated fire fighting water separately. It must not enter the sewage system.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures***Wear protective equipment. Keep away unprotected persons.**Ensure adequate ventilation**Keep away from naked flames, hot surfaces and sources of ignition.**Avoid contact with skin and eyes.**Do not inhale vapours and aerosols.*

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 3)

Close leaks without taking a personal risk.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Prevent seepage into sewage system, workpits and cellars.
In case of seepage into the ground inform responsible authorities.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact to eyes and skin.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Remove soiled, soaked clothing.
Keep away from food, drink and animal feed.
Wash hands before breaks and at the end of work.
Do not eat, drink or smoke at work.

Information about fire - and explosion protection:

Keep away ignition sources - Do not smoke.
Protect against electrostatic charges.
Do not spray onto a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.
Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from oxidising agents.
Store separately from food, luxury foods and animal feed.

Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

Storage class: 3 - flammable liquids**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 107-98-2 1-methoxy-2-propanol**

OEEL	Short-term value: 568 mg/m ³ , 150 ppm
	Long-term value: 375 mg/m ³ , 100 ppm
	IOELV

(Contd. on page 5)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 4)

CAS: 111-76-2 2-butoxyethanol

OEL Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin, IOELV

CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one

OEL Long-term value: 240 mg/m³, 50 ppm

DNELs**CAS: 100-51-6 benzyl alcohol**

Oral	Long term exposure	4 mg/kg KG/Tag (consumer)
	short-term exposure (oral)	20 mg/kg KG/d (consumer)
Dermal	Long term exposure	8 mg/kg (worker) 4 mg/kg (consumer)
	Short term exposure (dermal)	40 mg/kg (worker) 20 mg/kg (consumer)
Inhalative	Long term exposure	22 mg/m ³ (worker) 5.4 mg/m ³ (consumer)
	Short-term exposure (inhalative)	110 mg/m ³ (worker) 27 mg/m ³ (consumer)

CAS: 111-76-2 2-butoxyethanol

Oral	Long term exposure	3.2 mg/kg KG/Tag (consumer) (systemic effects)
	short-term exposure (oral)	13.4 mg/kg KG/d (consumer) (systemic effects)
Dermal	Long term exposure	75 mg/kg (worker) (systemic effects) 38 mg/kg (consumer) (systemic effects)
	Short term exposure (dermal)	89 mg/kg (worker) (systemic effects) 38 mg/kg (consumer) (systemic effects)
Inhalative	Long term exposure	98 mg/m ³ (worker) (systemic effects) 49 mg/m ³ (consumer) (systemic effects)
	Short-term exposure (inhalative)	246 mg/m ³ (worker) (local) 123 mg/m ³ (consumer) (local)

PNECs**CAS: 100-51-6 benzyl alcohol**

PNEC 0.527 mg/kg (sediment (saltwater))
5.27 mg/kg (sediment (freshwater))
PNEC 1–1.2 mg/l (freshwater)
0.1–0.102 mg/l (salt water)
39 mg/l (sewage plant)
2.3 mg/l (water, occasional release)

CAS: 111-76-2 2-butoxyethanol

PNEC 2.8 mg/kg (soil)
3.46 mg/kg (sediment (saltwater))
34.6 mg/kg (sediment (freshwater))
PNEC 463 mg/l (activated sludge)
8.8 mg/l (freshwater)
0.88 mg/l (salt water)

Additional information: The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 5)

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter AX

Hand protection

Protective gloves (EN 374)

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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Thickness > 0,45 mm

Breakthrough time: 240 min (maximum wearing time)

Eye/face protection

Safety goggles with side protection (frame goggles) (EN 166).

Body protection: Protective work clothing (EN 14605)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information**

Physical state

Liquid

Colour:

Yellowish

Odour:

Characteristic

Odour threshold:

Not determined

Melting point/freezing point:

Not determined.

Boiling point or initial boiling point and boiling range

120.3 °C (CAS: 107-98-2 1-methoxy-2-propanol)

Flammability

Flammable.

Lower and upper explosion limit

Lower:

1.3 Vol % (CAS: 100-51-6 benzyl alcohol)

Upper:

~20 Vol % (CAS: 107-98-2 1-methoxy-2-propanol)

Flash point:

35 °C (CAS: 107-98-2 1-methoxy-2-propanol)

Auto-ignition temperature:

240 °C (CAS: 111-76-2 2-butoxyethanol)

Decomposition temperature:

Not determined

(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 6)

Solubility

water:	Partly miscible.
Partition coefficient n-octanol/water (log value)	Not determined
Density and/or relative density	
Density at 20 °C:	0.95 g/cm ³
Relative density	Not determined

9.2 Other information**Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Ignition temperature:** Product is not selfigniting.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Solvent content:****Organic solvents:** 95.0 %**VOC (EC)** 95%
95.00 %**Solids content:** 0.0 %**Change in condition****Softening point/range****Oxidising properties**

Non-oxidising.

Evaporation rate

Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity**10.1 Reactivity** Stable under recommended storage conditions.**10.2 Chemical stability** Stable under normal conditions.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid**

Heat, flames and sparks.

Keep away from strong oxidants as well as reducing agents.

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 7)

10.5 Incompatible materials:

strong oxidants
strong acids

10.6 Hazardous decomposition products:

In case of fire:

CO₂, CO, NO_x, SO_x

Under certain conditions of fire, other toxic/irritant substances may form.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if inhaled.

LD/LC50 values relevant for classification:

Oral	LD50	4,172 mg/kg (Acute Toxicity Estimate)
Dermal	LD50	4,444 mg/kg (Acute Toxicity Estimate)
Inhalative	LC50 / 4 h	12.1 mg/l (Acute Toxicity Estimate)

CAS: 107-98-2 1-methoxy-2-propanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)

CAS: 100-51-6 benzyl alcohol

Oral	LD50	1,200 mg/kg (Acute Toxicity Estimate)
		1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	4.178 mg/l (rat)

CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rabbit)
Inhalative	LC50	2.2 mg/m ³ (rat) (4 h)

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Causes serious eye irritation.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** May cause drowsiness or dizziness.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:****CAS: 100-51-6 benzyl alcohol**

LC50	460 mg/l (Pimephales promelas) (96 h)
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(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 8)

EC50	770 mg/l (algae) (72 h) 390 mg/l (bacteria) (24 h) 230 mg/l (Daphnia magna) (48 h)
NOEC	310 mg/l (algae) (72 h) 51 mg/l (Daphnia magna) (21 d)
CAS: 111-76-2 2-butoxyethanol	
LC50	1,395 mg/l (fish) (48 h, <i>Leuciscus idus</i>)
EC50	>500 mg/kg (algae) (72 h, <i>Scenedesmus subspicatus</i>) 700 mg/kg (bacteria) (16 h, <i>Pseudomonas putida</i>) 1,815 mg/kg (Daphnia magna) (24 h)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects At intended use no interferences with environment are known or expected.

Other information:

General notes:

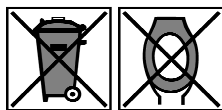
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

European waste catalogue

14 06 03* other solvents and solvent mixtures

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA

UN1993

(Contd. on page 10)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 9)

14.2 UN proper shipping name**ADR**

1993 FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, 2-butoxyethanol)

IMDG, IATA

FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, 2-butoxyethanol)

14.3 Transport hazard class(es)**ADR, IMDG, IATA****Class**

3 Flammable liquids.

Label

3

14.4 Packing group**ADR, IMDG, IATA**

III

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):

30

EMS Number:

F-E,S-E

Stowage Category

A

14.7 Maritime transport in bulk according to IMO**instruments**

Not applicable

Transport/Additional information:**ADR****Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

D/E

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, 2-BUTOXYETHANOL), 3, III

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

(Contd. on page 11)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 10)

Hazard pictograms

GHS02 GHS07

Signal word Warning**Hazard-determining components of labelling:**

benzyl alcohol
1-methoxy-2-propanol
2-butoxyethanol

Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
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.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 12)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.05.2026

Version number 1.6 (replaces version 1.5)

Revision: 21.05.2026

Trade name: Maspra Tip-Clean

(Contd. of page 11)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.

Training hints

Upon request trainings for to ensure safety of human health and of environment can be given. Contact see below.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Contact: Email: info@gemini-airless.de

Version number of previous version: 1.5

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources

Data of raw material suppliers.

GESTIS-Stoffdatenbank, Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung, <https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>.

ECHA-Database, European Chemical Agency, <https://echa.europa.eu>.

* Data compared to the previous version altered.