

**TG Shield**

Revision date: 06.03.2026

Product code: TG-003

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product Identifier**

TG Shield

**Other trade names**

Article no.: TG-ASH-050-RT

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture:**

Special coatings

**Uses advised against:**

Use only for the intended purpose.

**1.3. Details of the supplier of the safety data sheet**

Company name: Thermal Grizzly Holding GmbH  
Street: Gewerbestraße 39  
Place: 16540 Hohen Neuendorf  
Telephone: +49-40-53278850  
Fax: +49-321-21134793  
E-mail: support@thermal-grizzly.com  
Internet: <http://thermal-grizzly.com/>

**1.4. Emergency telephone number****Medical emergency information in case of poisoning:**

Poison Information Centre Mainz – 24 h – Phone: +49 (0) 6131 19240 (advice available in German and English)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Hazard categories:**

Flammable liquids:	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.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Ethyl acetate  
Butyl acetate  
Isopropanol

**Signal word:**

Danger

**Hazard pictograms:****Hazard statements:**

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

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**Precautionary statements:**

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing vapour.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national regulations.
P312	Call a POISON CENTER/doctor if you feel unwell.
P370+P378	In case of fire: Use carbon dioxide, extinguishing powder, alcohol-resistant foam or water spray to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**Special labelling of certain mixtures:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

The ingredients in this mixture do not meet the criteria for classification as PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**
**3.1. Mixtures**
**Hazardous components**

Substance	CAS-No.:	Index No.:	GHS classification	REACH No.	EC No.	CLP classification	Quantity %
Butyl acetate	123-86-4	607-025-00-1	Flam. Liq. 3; STOT SE 3		204-658-1	Flam. Liq. 3; H226 – STOT SE 3; H336	28
Ethyl acetate	141-78-6	607-022-00-5	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3		205-500-4	Flam. Liq. 2; H225/Eye Irrit. 2; H319/STOT SE 3; H336	28
Nitrocellulose (in solution / phlegmatized; delivery form according to upstream supplier)	9004-70-0	603-037-00-6	Classification depends on delivery form/phlegmatization		618-392-2	Classification depends on delivery form/phlegmatization; in the mixture no classification as explosive substance	21
Isopropanol	67-63-0	603-117-00-0	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3		200-661-7	Flam. Liq. 2; H225 – Eye Irrit. 2; H319 – STOT SE 3; H336	16
Bentonite	1302-78-9		Not classified		215-108-5	Not classified	7

Full text of H- and EUH-statements: see Section 16.

For bentonite (CAS 1302-78-9), no harmonized CLP classification is indicated in the ECHA regulatory obligations. The harmonized CLP classification for nitrocellulose refers to specific forms; the classification of the delivered form is decisive and is listed as “not classified” according to the upstream supplier SDS.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

First aiders: pay attention to self-protection. Remove affected persons from the danger area and keep them at rest. Remove contaminated clothing/shoes. If symptoms persist or in case of uncertainty, seek medical advice. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and monitor breathing.

**After inhalation**

Move the affected person to fresh air and keep warm and calm. If symptoms occur (e.g. dizziness, drowsiness, respiratory tract irritation), seek medical advice. If unconscious, place in the recovery position; if breathing has stopped, provide artificial respiration by trained personnel.

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**After skin contact**

Wash thoroughly with plenty of water and soap. Change contaminated clothing and wash before reuse. If skin irritation persists, seek medical advice.

**After eye contact**

Immediately rinse carefully with water for at least 10–15 minutes, keeping eyelids open. Remove contact lenses if possible and continue rinsing. If irritation, pain, redness or visual disturbances persist, seek medical advice / consult an ophthalmologist.

**After ingestion**

Rinse out mouth. Do not induce vomiting. Keep the affected person at rest. Only if the person is conscious: let them drink water in small sips (dilution effect). In case of malaise, larger amounts, or persistent symptoms, contact a poison centre/doctor. If vomiting occurs spontaneously, keep the head low/to the side to avoid aspiration of vomit. Do not give anything by mouth to unconscious persons.

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

Causes severe eye irritation (e.g. redness, tearing, burning/pain, possibly swelling of the conjunctiva). Vapours may cause drowsiness and dizziness; headache, nausea and vertigo are also possible. Repeated or prolonged skin contact may cause degreasing/dryness and irritation.

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

Treat symptomatically. In case of persistent or severe symptoms, medical monitoring is required (especially CNS/respiratory symptoms). Show this safety data sheet/label to the doctor.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray, alcohol-resistant foam. Larger fires should preferably be fought with alcohol-resistant foam or water spray.

**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Flammable vapours may form explosive mixtures with air. Vapours are heavier than air, may spread along the ground and travel to distant ignition sources (flashback hazard). Heating containers may cause pressure build-up and rupture. In case of fire, the following may be formed: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), as well as irritating/harmful decomposition products; possibly nitrogen oxides (NO<sub>x</sub>).

**5.3. Advice for firefighters**

Adapt firefighting measures to the surroundings. Wear self-contained breathing apparatus and suitable chemical protective clothing. Remove containers from the danger area if it can be done safely. Cool endangered containers with water spray. Knock down gases/vapours/mists with water spray if necessary. Collect contaminated extinguishing water separately and do not allow it to enter drains or watercourses.

**Additional information**

Knock down gases/vapours/mists with water spray. Use water spray to protect persons and cool containers in the danger area. Collect contaminated extinguishing water separately. Do not allow it to enter drains or water bodies.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove ignition sources, no smoking. Vapours can form explosive mixtures with air and spread along the ground. Do not step in spilled liquid and avoid inhalation of vapours. Avoid contact with skin, eyes and clothing. Wear suitable personal protective equipment (e.g. protective gloves and eye protection). Keep unauthorized persons away. If safe to do so, stop leak/release. Use only spark-free tools; keep spilled material away from ignition sources.

**6.2. Environmental precautions**

Do not allow to enter drains, surface water or soil. In case of larger releases or if product enters water/soil, notify the competent authorities in accordance with local regulations.

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**6.3. Methods and material for containment and cleaning up**

Contain spread where possible (e.g. with absorbents/barriers). Absorb with inert, non-combustible liquid-binding material (e.g. sand, diatomaceous earth, universal binder) and transfer into tightly closed, suitable and labelled containers. Remove residues with water and detergent; do not use solvents for cleaning. Ventilate area well. Dispose of collected material in accordance with Section 13.

**6.4. Reference to other sections**

Safe handling: see Section 7  
Personal precautions: see Section 8  
Disposal: see Section 13

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

Use only outdoors or in well-ventilated areas. Do not breathe vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Keep container tightly closed when not in use. Keep away from heat, sparks, open flames and hot surfaces – no smoking. During transfer operations or work with larger quantities, take measures against electrostatic discharge and use only spark-free tools.

**Advice on protection against fire and explosion**

Keep away from ignition sources – no smoking. Take measures against electrostatic charges.

**Further information on handling**

Use only spark-free tools during transfer operations or when handling larger quantities.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store tightly closed in the original container in a cool, dry and well-ventilated place. Protect from heat sources, sparks, open flames and direct sunlight. Keep away from oxidizing agents as well as strong acids and bases. Prevent access by unauthorized persons; keep out of the reach of children.

**Further information on storage conditions**

Protect from sunlight and heat sources. Avoid ignition sources.

**Storage class according to TRGS 510:**

3 (Flammable liquids)

**7.3. Specific end use(s)**

Coating for electronics

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****TRGS 900 – Occupational exposure limit values (AGW)**

Substance	CAS	AGW (ml/m <sup>3</sup> ≙ ppm)	AGW (mg/m <sup>3</sup> )	Peak limitation (short-term rule)	Category
n-Butyl acetate	123-86-4	62	300	Excursion factor 2; duration 15 min (average); 4 times/shift; interval 1 h	I
Ethyl acetate	141-78-6	200	730	Excursion factor 2; duration 15 min (average); 4 times/shift; interval 1 h	I
2-Propanol (isopropanol)	67-63-0	200	500	Excursion factor 2; duration 15 min (average); 4 times/shift; interval 1 h	II

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### Occupational exposure limits (ACGIH/NIOSH; data according to supplier SDS)

Substance	CAS-No.:	ACGIH	ACGIH	NIOSH	NIOSH
		TLV - TWA	TLV - STEL	REL - TWA	REL - STEL
Butyl acetate	123-86-4	150 ppm	200 ppm	150 ppm	200 ppm
Ethyl acetate	141-78-6	400 ppm	n.a.	400 ppm	n.a.
Nitrocellulose	9004-70-0	n.a.	n.a.	n.a.	n.a.
Isopropanol	67-63-0	n.a.	n.a.	n.a.	n.a.
Bentonite	1302-78-9	1 mg/m <sup>3</sup> (fraction not specified; according to supplier SDS)		n.a.	n.a.

n.a. = not stated in the supplier SDS / no value available. The applicable national OELs (TRGS 900) or EU limit values are decisive. ACGIH/NIOSH values are provided only as supplementary information where stated by the supplier. During dust-generating processing (e.g. sanding/drying/abrasion), the applicable limit values for inhalable and/or respirable dust must be observed and appropriate extraction/ventilation must be ensured.

### Biological limit values (TRGS 903)

Substance	CAS No.	Parameter	BLV	Medium	Sampling time
Isopropanol (propan-2-ol)	67-63-0	Acetone	25 mg/L	Blood	b (end of shift)
Isopropanol (propan-2-ol)	67-63-0	Acetone	25 mg/L	Urine	b (end of shift)

b = sampling at the end of the shift or exposure

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**DNEL values**

Substance	CAS No.	DNEL type	Exposure route	Effect	Value
<b>Butyl acetate</b>	123-86-4	Worker, long-term	inhalation	systemic	480 mg/m <sup>3</sup>
		Worker, short-term	inhalation	systemic	960 mg/m <sup>3</sup>
		Consumer, long-term	inhalation	systemic	102.34 mg/m <sup>3</sup>
		Consumer, short-term	inhalation	systemic	859.7 mg/m <sup>3</sup>
<b>Ethyl acetate</b>	141-78-6	Worker, long-term	inhalation	systemic	734 mg/m <sup>3</sup>
		Worker, short-term	inhalation	systemic	1468 mg/m <sup>3</sup>
		Consumer, long-term	inhalation	systemic	367 mg/m <sup>3</sup>
		Consumer, short-term	inhalation	systemic	734 mg/m <sup>3</sup>
		Consumer, long-term	dermal	systemic	37 mg/kg bw/day
		Worker, long-term	dermal	systemic	63 mg/kg bw/day
		Consumer, long-term	oral	systemic	4.5 mg/kg bw/day
<b>Nitrocellulose</b>	9004-70-0	DNEL not available <sup>1</sup>			
<b>Isopropanol</b>	67-63-0	Worker, long-term	inhalation	systemic	500 mg/m <sup>3</sup>
		Worker, short-term	inhalation	systemic	1,000 mg/m <sup>3</sup>
		Consumer, long-term	inhalation	systemic	89 mg/m <sup>3</sup>
		Consumer, short-term	inhalation	systemic	178 mg/m <sup>3</sup>
		Consumer, long-term	dermal	systemic	319 mg/kg bw/day
		Consumer, long-term	oral	systemic	26 mg/kg bw/day
		Consumer, short-term	oral	systemic	51 mg/kg bw/day
		Worker, long-term	dermal	systemic	888 mg/kg bw/day
		Worker, short-term	dermal	systemic	no DNEL derived / no hazard identified (according to dossier text: "no hazard identified")
<b>Bentonite</b>	1302-78-9	no DNEL derived <sup>1</sup>			

<sup>1</sup>DNEL: not available (not provided by the upstream supplier / no reliable data available for DNEL derivation).

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**PNEC values**

Substance	CAS No.	Environmental compartment	PNEC	Unit	Note
Ethyl acetate	141-78-6	Freshwater	0.26	mg/L	
		Marine water	0.026	mg/L	
		Freshwater sediment	1.25	mg/kg dw <sup>2</sup>	
		Marine sediment	0.125	mg/kg dw <sup>2</sup>	
		STP (sewage treatment plant)	650	mg/L	“Microorganisms in sewage treatment plants”
n-Butyl acetate	123-86-4	Freshwater	0.18	mg/L	
		Marine water	0.018	mg/L	
		Soil	0.0903	mg/kg dw <sup>2</sup>	
		Freshwater sediment	0.981	mg/kg dw <sup>2</sup>	
		Marine sediment	0.0981	mg/kg dw <sup>2</sup>	
		STP (sewage treatment plant)	35.6	mg/L	
Isopropanol	67-63-0	PNEC not available <sup>1</sup>			
Nitrocellulose	9004-70-0	PNEC not available <sup>1</sup>			
Bentonite	1302-78-9	PNEC not available <sup>1</sup>			

<sup>1</sup>PNEC: not stated in the supplier SDS/eSDS or not provided by the supplier; not published in publicly accessible ECHA sources (retrieval date: 05.03.2026).

<sup>2</sup>dw = dry weight

**8.2. Exposure controls**
**Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and at the end of work. Do not eat or drink while working. Avoid contact with skin, eyes and clothing. If the product comes into contact with the skin, wash off with water and soap or a suitable cleaning agent.

**Eye/face protection**

Tightly fitting safety goggles with side protection.

**Hand protection**

Preventive skin protection by using barrier cream. Wear protective gloves according to EN ISO 374. Suitable material: NBR (nitrile rubber), e.g. ≥ 0.5 mm. Determine breakthrough times/change intervals according to manufacturer's instructions and conditions of use.

**Body protection**

Wear suitable work/protective clothing.

**Respiratory protection**

Not required with sufficient ventilation. In case of insufficient ventilation, use respiratory protection with a filter for organic vapours according to EN 14387 (e.g. type A or type A/AX according to EN 14387). Select filter type and class according to concentration and duration of use. In case of high concentrations or prolonged exposure, use self-contained breathing apparatus.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	characteristic
pH value:	not determined

**Changes in physical state**

Melting point:	no data available
Initial boiling point and boiling range:	56.5 °C (value according to supplier SDS; measurement conditions not stated)
Flash point:	< 16 °C (closed cup)

**Flammability**

Solid:	no data available
Gas:	no data available

**Explosive properties**

The product is not explosive; however, formation of explosive vapour/air mixtures is possible.

Lower explosion limit:	no data available
Upper explosion limit:	no data available
Ignition temperature:	no data available

**Auto-ignition temperature**

Solid:	no data available
Gas:	no data available

Decomposition temperature: no data available

**Oxidizing properties:**

Vapour pressure:	no data available
Density:	no data available
Water solubility:	no data available
Partition coefficient:	no data available
Dynamic viscosity:	no data available
Kinematic viscosity:	no data available
Vapour density:	not determined

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactivity under normal conditions. Vapours may form explosive mixtures with air.

**10.2. Chemical stability**

Stable under normal ambient conditions and when stored/handled as intended.

**10.3. Possibility of hazardous reactions**

No hazardous reactions expected under intended use. Formation of explosive vapour/air mixtures is possible.

**10.4. Conditions to avoid**

Avoid heat, hot surfaces, sparks, open flames and other ignition sources. Protect containers from heating and direct sunlight. Avoid drying out of the product.

**10.5. Incompatible materials**

Strong oxidizing agents, strong acids and strong bases.

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**10.6. Hazardous decomposition products**

Thermal decomposition may produce harmful gases and vapours, including nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

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

Substance	CAS No.	Route	Duration/Form	Endpoint	Value	Unit	Species
Ethyl acetate	141-78-6	oral	—	LD50	4100	mg/kg	mouse
		dermal	—	LD50	>20000	mg/kg	rabbit
n-Butyl acetate	123-86-4	oral	—	LD50	13100	mg/kg	rat
		dermal	—	LD50	>17600	mg/kg	rabbit
		inhalation	4 h, vapour	LC50	>21	mg/L (air)	rat
Isopropanol	67-63-0	inhalation	4 h, vapour	LC50	73	mg/L (air)	rat

**Irritation and corrosivity**

Causes serious eye irritation. Skin corrosion/irritation: based on available data, the classification criteria are not met.

**Sensitising effects**

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

**Carcinogenic, mutagenic and toxic to reproduction effects**

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

**Specific target organ toxicity – single exposure**

May cause drowsiness and dizziness (ethyl acetate; n-butyl acetate; isopropanol).

**Specific target organ toxicity – repeated exposure**

Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking (EUH066).

**Aspiration hazard**

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

**SECTION 12: Ecological information**
**12.1. Toxicity**

Data for individual ingredients are given in the following table.

Substance	CAS No.	Endpoint	Organism group	Species	Exposure duration	Value	Unit	Test type
Ethyl acetate	141-78-6	LC50	Fish	Pimephales promelas	96h	230	mg/L	acute
		EC50	Daphnia	Daphnia magna	48h	717	mg/L	acute
n-Butyl acetate	123-86-4	LC50	Fish	Leuciscus idus	96h	62	mg/L	acute
		ErC50	Algae	Scenedesmus subspicatus	72h	674	mg/L	acute

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**12.2. Persistence and degradability**

No data are available on the persistence/degradability of the mixture. Information on individual substances can be taken from the respective substance data (e.g. GESTIS/ECHA).

**12.3. Bioaccumulation potential**

For 2-propanol, data on the n-octanol/water partition coefficient are available.

**Partition coefficient n-octanol/water**

CAS No.	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0.05

**12.4. Mobility in soil**

No data are available on the mobility of the mixture. Information on the mobility of individual components may be derived from log Pow/Koc values in substance data sheets.

**12.5. Results of PBT and vPvB assessment**

Based on the available information, the ingredients do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of in accordance with local/official regulations. Do not allow product residues to enter drains or watercourses. Do not dispose of with household waste. Hand over larger quantities and commercial waste to an authorized waste disposal company. For end users: dispose of product residues via municipal collection points (e.g. recycling centre / hazardous waste collection vehicle) in accordance with local requirements.

**Disposal of uncleaned packaging and recommended cleaning agents**

Contaminated packaging must be treated in the same way as the substance and disposed of accordingly. Completely emptied, uncontaminated packaging may be recycled. Contaminated packaging must be treated in the same way as the substance.

**Cleaning agents**

For cleaning contaminated objects: water and detergent; do not use solvents.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1 UN number:</b>	UN 1263
<b>14.2 UN proper shipping name:</b>	PAINT
<b>14.3 Transport hazard class(es):</b>	3
<b>14.4 Packing group:</b>	II
Hazard label:	3



Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	5 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code	D/E

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**Inland waterways transport (ADN)**

**14.1 UN number:** UN 1263  
**14.2 UN proper shipping name:** PAINT  
**14.3 Transport hazard class(es):** 3  
**14.4 Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601 640D  
Limited quantity: 5 L  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1 UN number:** UN 1263  
**14.2 UN proper shipping name:** PAINT  
**14.3 Transport hazard class(es):** 3  
**14.4 Packing group:** II  
Hazard label: 3



Special provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1 UN number:** UN 1263  
**14.2 UN proper shipping name:** PAINT  
**14.3 Transport hazard class(es):** 3  
**14.4 Packing group:** II  
Hazard labels: 3



Special Provisions: A3  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions – Passenger: 353  
IATA-max. quantity – Passenger: 5 L  
IATA-packing instructions – Cargo: 364  
IATA-max. quantity – Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No special precautions beyond those given in Sections 7 and 8 are required. Transport according to ADR/RID/ADN/IMDG/IATA.

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**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable (product is not transported in bulk according to MARPOL Annex II / IBC Code).

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Restrictions on use (REACH, Annex XVII):**

No restrictions are known for the mixture; where applicable, observe substance-specific restrictions of the components.

**Information according to VOC Directive (2004/42/EC):**

VOC content: 750.1 g/L

**Product category / limit value:**

not specified (category/limit value not determined)

**Additional information**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer:	Not applicable
Regulation (EC) No. 648/2004 on detergents:	Not applicable
Regulation (EC) No. 850/2004 on persistent organic pollutants:	Not applicable
Regulation (EC) No. 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals:	PIC Regulation (EU) No. 649/2012: Not applicable; no chemicals listed in Annex I are contained.

The mixture contains the following substances of very high concern (SVHC) included in the Candidate List according to REACH Article 59:

	none
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**National regulations**

Water hazard class:	WGK 1 (slightly hazardous to water)
Status:	Classification of mixtures according to Annex 1, No.5 AwSV

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture have not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW:	Occupational Exposure Limit Value
AwSV:	Ordinance on Installations Handling Substances Hazardous to Water
BGW:	Biological Limit Value
BImSchV:	Ordinances implementing the Federal Immission Control Act
CAS:	Chemical Abstracts Service
EC50:	Effective concentration 50%
EC:	European Community
EC No.:	EC number (EINECS/ELINCS number; European substance identification number)
EN:	European Standard
EQ:	Excepted Quantity
EmS:	Emergency Schedules (IMDG)
IATA:	International Air Transport Association
IBC Code:	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
CLP:	Classification, Labelling, Packaging
IUCLID:	International Uniform Chemical Information Database
LC:	Lethal Concentration
LD:	Lethal Dose
LQ:	Limited Quantity
log Kow:	Octanol/water partition coefficient
MAK:	Maximum Workplace Concentration

**TG Shield**

Revision date: 06.03.2026

Product code: TG-003

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MARPOL:	Maritime Pollution Convention = International Convention for the Prevention of Pollution from Ships
OECD:	Organisation for Economic Co-operation and Development
OEL:	Occupational Exposure Limit
PBT:	Persistent, Bioaccumulative and Toxic
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS:	Technical Rules for Hazardous Substances
VOC:	Volatile Organic Compounds
vPvB:	very Persistent and very Bioaccumulative
VvVwS:	Administrative Regulation on Substances Hazardous to Water
WGK:	Water Hazard Class
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
DNEL:	Derived No-Effect Level
PNEC:	Predicted No-Effect Concentration
TLV:	Threshold Limit Value
STP:	Sewage Treatment Plant
STOT:	Specific Target Organ Toxicity

**Classification of mixtures and evaluation method used according to Regulation (EC) No. 1272/2008 [CLP]****Classification**   **Classification procedure**

Flam. Liq. 2;	H225	Based on test data
Eye Irrit. 2;	H319	Calculation method
STOT SE 3;	H336	Calculation method

**Full text of H- and EUH-statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking

**Further information**

The information on hazardous ingredients is based on the latest valid safety data sheets of upstream suppliers and, where available, on publicly accessible substance data (e.g. ECHA/C&L, GESTIS). It is not intended to guarantee specific properties and is based on the current state of our knowledge.

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