

Genuine Turpentine

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 04/06/2015

Revision date: 04/06/2015

Version: 1.1

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

1.1. Product identifier

Product form : Substance
EC index no : 650-002-00-6
EC no : 232-350-7
CAS No : 8006-64-2
REACH registration No : 01-2119553060-53-XXXX
Product code : TUGEEN
Synonyms : oil of turpentine / spirit of turpentine / spirits of turpentine / turpentine / turps
BIG no : 10166

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use, Professional use, Industrial use

Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

1.4. Emergency telephone number

Emergency number : +44 (0) 1270 502891 (Out of Office Hours Emergency Number)

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Inhalation) H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
Asp. Tox. 1 H304
Aquatic Chronic 2 H411

Full text of H-statements: see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10

Xn; R20/21/22

Xn; R65

Xi; R36/38

R43

N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P102 - Keep out of reach of children
P210 - Keep away from heat, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P261 - Avoid breathing fume, vapours, mist, spray
P264 - Wash hands thoroughly after handling
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P310 + P331- IF SWALLOWED: immediately call a POISON CENTER or doctor/physician - Do NOT induce vomiting
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Listed in Annex VI

: EC index no : 650-002-00-6

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : turpentine oil
CAS No : 8006-64-2
EC no : 232-350-7
EC index no : 650-002-00-6

Name	Product identifier	%	Classification according to Directive 67/548/EEC
turpentine oil	(CAS No) 8006-64-2 (EC no) 232-350-7 (EC index no) 650-002-00-6 (REACH-no) 01-2119553060-53-XXXX	100	R10 Xn; R20/21/22 Xn; R65 Xi; R36/38 R43 N; R51/53

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
turpentine oil	(CAS No) 8006-64-2 (EC no) 232-350-7 (EC index no) 650-002-00-6 (REACH-no) 01-2119553060-53-XXXX	100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of R- and H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray. Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Gently wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse eyes with water as a precaution. Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician. Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do NOT induce vomiting. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Central nervous system depression. Nausea. Dizziness. Headache. Accelerated heart action. Coordination disorders. Disturbances of consciousness. Respiratory difficulties. Risk of pneumonia. Risk of lung oedema. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Irritation of the eye tissue. Causes serious eye irritation.
Symptoms/injuries after ingestion	: Nausea. Irritation of the gastric/intestinal mucosa. Abdominal pain. Diarrhoea. Risk of aspiration pneumonia. Decreased renal function. Change in urine composition. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Symptoms similar to those listed under inhalation. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Itching. Skin rash/inflammation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Polyvalent foam. BC powder. Carbon dioxide. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May build up electrostatic charges: risk of ignition. May be ignited by sparks. Reactions involving a fire hazard: see "Reactivity Hazard". Flammable liquid and vapour.

Explosion hazard : DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. May be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard". May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing. See "Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Heating: dilute combustible gas/vapour with water curtain.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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- Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing fume, Vapours.
- Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash Skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Flame proof, lighting, electrical equipment and ventilation equipment.
- Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
- Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
- Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids. halogens.
- Storage area : Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.
- Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. opaque. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
- Packaging materials : SUITABLE MATERIAL: steel. aluminium. iron. polyethylene. polypropylene. glass. stoneware/porcelain. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Genuine Turpentine (8006-64-2)		
Austria	Local name	Terpentinöl
Austria	MAK (mg/m ³)	560 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	560 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H,Sh
Belgium	Local name	Essence de térébenthine et monoterpènes sélectionnés
Belgium	Limit value (ppm)	20 ppm
Bulgaria	Local name	Терпентин
Bulgaria	OEL TWA (mg/m ³)	300 mg/m ³
Croatia	Local name	Terpentinsko ulje
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	566 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	850 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	150 ppm
Croatia	Naznake (HR)	Xn, N
Czech Republic	Local name	Terpentýn – páry
Czech Republic	Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	50 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	800 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	140 ppm

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Genuine Turpentine (8006-64-2)		
Denmark	Local name	Terpentin, vegetabilsk (1994)
Denmark	Grænseværdie (langvarig) (mg/m³)	140 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Estonia	Local name	Tärpentin
Estonia	OEL TWA (mg/m³)	150 mg/m³
Estonia	OEL TWA (ppm)	25 ppm
Estonia	OEL STEL (mg/m³)	300 mg/m³
Estonia	OEL STEL (ppm)	50 ppm
Finland	Local name	Tärpätti
Finland	HTP-arvo (8h) (mg/m³)	140 mg/m³
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	280 mg/m³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
France	Local name	Térébenthine
France	VME (mg/m³)	560 mg/m³
France	VME (ppm)	100 ppm
Greece	OEL TWA (mg/m³)	560 mg/m³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m³)	840 mg/m³
Greece	OEL STEL (ppm)	150 ppm
Hungary	Local name	TERPENTIN
Hungary	AK-érték	560 mg/m³
Hungary	CK-érték	560 mg/m³
Hungary	Megjegyzések (HU)	i, sz, b; l.
Ireland	Local name	Turpentine
Ireland	OEL (8 hours ref) (mg/m³)	112 mg/m³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m³)	840 mg/m³
Ireland	OEL (15 min ref) (ppm)	150 ppm
Lithuania	Local name	Terpentinas
Lithuania	IPRV (mg/m³)	150 mg/m³
Lithuania	IPRV (ppm)	25 ppm
Lithuania	TPRV (mg/m³)	300 mg/m³
Lithuania	TPRV (ppm)	50 ppm
Poland	Local name	Terpentina
Poland	NDS (mg/m³)	112 mg/m³
Poland	NDSch (mg/m³)	300 mg/m³
Portugal	Local name	Terebentina, e monoterpenos específicos
Portugal	OEL TWA (ppm)	20 ppm
Romania	Local name	Terebentina (esenta de)
Romania	OEL TWA (mg/m³)	400 mg/m³
Romania	OEL STEL (mg/m³)	500 mg/m³
Slovenia	Local name	terpentinovo olje
Slovenia	OEL TWA (mg/m³)	560 mg/m³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m³)	560 mg/m³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Aguarrás, incluyendo los monoterpenos (2011)

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Genuine Turpentine (8006-64-2)		
Spain	VLA-ED (mg/m ³)	113 mg/m ³ Sen (Sensibilizante. Véase Apartado 6.)
Spain	VLA-ED (ppm)	20 ppm Sen (Sensibilizante. Véase Apartado 6.)
United Kingdom	Local name	Turpentine
United Kingdom	WEL TWA (mg/m ³)	566 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	850 mg/m ³
United Kingdom	WEL STEL (ppm)	150 ppm
Iceland	Local name	Terpentína (jurta)
Iceland	OEL (8 hours ref) (mg/m ³)	140 mg/m ³
Iceland	OEL (8 hours ref) (ppm)	25 ppm
Norway	Local name	Terpentin (vegetabilsk)
Norway	Grenseverdier (AN) (mg/m ³)	140 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	A H
Switzerland	Local name	Essence de térébenthine
Switzerland	VME (mg/m ³)	560 mg/m ³
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	560 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	Turpentine (wood)
Australia	TWA (mg/m ³)	557 mg/m ³
Australia	TWA (ppm)	100 ppm
USA - ACGIH	Local name	Turpentine and selected monoterpenes
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	ACGIH STEL (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	URT & skin irr; CNS impair; lung dam; DSEN; A4
USA - OSHA	Local name	Turpentine
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	560 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm

8.2. Exposure controls

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation.
Personal protective equipment	: Protective clothing. Protective goggles. Gloves.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: viton. GIVE GOOD RESISTANCE: nitrile rubber. GIVE LESS RESISTANCE: PVA. GIVE POOR RESISTANCE: neoprene. PVC
Hand protection	: Wear protective gloves
Eye protection	: Face-shield. Chemical goggles or safety glasses
Skin and body protection	: Protective clothing. Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended



Other information	: Do not eat, drink or smoke during use.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless to light yellow.

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Odour	: Aromatic odour. Pine odour.
Odour threshold	: 100 - 200 ppm 560 - 1120 mg/m ³
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 0,41
Relative evaporation rate (ether=1)	: 22
Melting point	: -60 - -50 °C
Freezing point	: No data available
Boiling point	: 154-170
Flash point	: 37 °C
Auto-ignition temperature	: 270 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: 5 hPa
Relative vapour density at 20 °C	: 4,7
Relative density	: 0,86
Relative density of saturated gas/air mixture	: 1,01
Density	: 860 kg/m ³
Solubility	: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in petroleum spirit. Soluble in oils/fats. Soluble in carbondisulfide. Soluble in acetic acid. Soluble in chloroform. Water: 0,002 g/100ml
Log Pow	: 0,8 - 6,3 (QSAR; 20 °C)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0,8 - 6,0 vol %

9.2. Other information

VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C. Slightly volatile. May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO₂ are formed. Oxidizes slowly on exposure to air and on exposure to light. Reacts with (some) halogens: risk of spontaneous ignition. Reacts with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids: (increased) risk of fire/explosion.

10.2. Chemical stability

Unstable on exposure to air. Unstable on exposure to light. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Genuine Turpentine (8006-64-2)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 4.6 ml/kg; Rat)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (ppm)	2466 ppm/4h (Rat)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.

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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms	: Harmful if swallowed. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Dangerous for the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5/l.
Ecology - water	: Fouling to shoreline. Ground water pollutant. Harmful to fishes. Toxic to invertebrates (Daphnia). Harmful to algae. Taste alteration in fish/aquatic organisms . Toxic to aquatic life with long lasting effects.

Genuine Turpentine (8006-64-2)

Threshold limit algae 1	17,1 mg/l (72 h; Desmodesmus subspicatus; GLP)
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12.2. Persistence and degradability

Genuine Turpentine (8006-64-2)

Persistence and degradability	Readily biodegradable in water. No (test)data available on mobility of the substance. May cause long-term adverse effects in the environment.
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12.3. Bioaccumulative potential

Genuine Turpentine (8006-64-2)

Log Pow	0,8 - 6,3 (QSAR; 20 °C)
Bioaccumulative potential	bioaccumulable. Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information	: Avoid release to the environment
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Do not discharge into surface water.
Additional information	: LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive 2008/98/EC. Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
European List of Waste (LoW) code	: 07 01 04* - other organic solvents, washing liquids and mother liquors
H code	: H3-B - 'Flammable': liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1299
UN-No. (IMDG)	: 1299
UN-No. (IATA)	: 1299
UN-No. (ADN)	: 1299
UN-No. (RID)	: 1299

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Turpentine
Proper Shipping Name (IMDG)	: TURPENTINE
Proper Shipping Name (IATA)	: Turpentine
Proper Shipping Name (ADN)	: TURPENTINE
Proper Shipping Name (RID)	: TURPENTINE
Transport document description (ADR)	: UN 1299 Turpentine, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1299 TURPENTINE, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3



ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3



RID

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Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

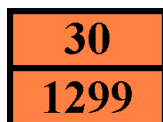
14.6. Special precautions for user

14.6.1. Overland transport

Transport regulations (ADR) : Subject
Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : 3Y

14.6.2. Transport by sea

Transport regulations (IMDG) : Subject
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E

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: A

Stowage category (IMDG)

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Flash point (IMDG) : 35°C c.c.

14.6.3. Air transport

Transport regulations (IATA) : Subject to the provisions
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
ERG code (IATA) : 3L

14.6.4. Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No
Not subject to ADN : No

14.6.5. Rail transport

Transport regulations (RID) : Subject
Classification code (RID) : F1
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30
Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Genuine Turpentine
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Genuine Turpentine
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Genuine Turpentine

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3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

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40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Genuine Turpentine
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Genuine Turpentine is not on the REACH Candidate List

Genuine Turpentine is not on the REACH Annex XIV List

VOC content : 100 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : 2 - hazard to waters

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

Storage class (LGK) : LGK 3 - Flammable liquids

Netherlands

Waterbezwaarlijkheid : 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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SDS EU_NSC

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.