



**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 2 von 10

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Molecular formula:**

Hazardous components

EG-No.	Designation	Anteil
CAS-No.	Classification	
Index-Nr.	GHS classification	
REACH-Nr.		

200-661-7	Isopropyl alcohol	65-70 %
67-63-0	F – highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

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

**Section 4: First Aid Measures****4.1. Description of first aid measures****General information**

After inhalation: Fresh air. if breathing or mechanical ventilation. If rapid recovery does not occur, consult doctor.  
After contact with skin: Wash with plenty of soap and water. Remove contaminated clothing. In case of persistent symptoms consult doctor.  
After contact with eyes: Rinse with plenty of water with the eyelid held wide open for at least 10 minutes. Call an eye doctor.  
After ingestion: Drink plenty of water. Do not induce vomiting. Consult a physician.

**After inhalation**

Fresh air. if breathing or mechanical ventilation. If rapid recovery does not occur, consult doctor.

**After contact with skin**

Rinse with plenty of water with the eyelid held wide open for at least 10 minutes. Call an eye doctor.

**After contact with eyes**

Rinse with plenty of water with the eyelid held wide open for at least 10 minutes. Call an eye doctor.

**After ingestion**

Drink plenty of water. Do not induce vomiting. Consult a physician.

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

After swallowing and subsequent vomiting may cause aspiration into the lungs, which can lead to chemical pneumonia or asphyxiation.

Activated carbon to give (20 - 40 g in 10% slurry) in order to reduce the absorption in the gastrointestinal tract.

Gastric lavage may be carried out because of the risk of aspiration only under endotracheal intubation.

Laxative: sodium sulfate (1 tablespoon / 250ml of water).

Administer milk or fatty oils In no event.

The overall effect is comparable to that of ethanol. Causing retardation of the central nervous system (depression of CNS).

**The following symptoms may occur**

- headache
- Dizziness
- Nausea



## MSDS-Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Wintersteiger special machine cleaner 1 and 5 L (new)

Print date: 26.03.2013

Page 3 von 10

- anesthesia
- - Dry skin
- - Ingestion may cause intoxication and unconsciousness.
- Irritant to skin, eyes and respiratory system. Produce oil from the skin cream to prevent dermatitis (skin inflammation)

#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

###### **Suitable extinguishing media**

Fires larger quantities with alcohol-resistant foam or water spray Film Forming Foam or fight. Fight small fires with powder, dry chemical, carbon dioxide, sand or earth.

###### **For safety reasons unsuitable extinguishing agents**

Water with full jet.

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

Combustible. Vapours are heavier than air and spread along ground. Forms explosive mixtures with air at ambient temperatures. In case of fire hazardous combustion gases or vapors possible in inflammation over greater distances. In case of fire may be liberated:  
Carbon monoxide (CO)

##### **5.3. Advice for firefighters**

Stay in dangerous zone without suitable chemical protection clothing and self-contained full-contained breathing apparatus.

##### **Additional information**

Cool endangered containers with water spray jet. Fire Class B (flammable liquids).  
Prevent fire-fighting water from entering surface water or groundwater.  
Take precautionary measures against static discharges. Keep away from sources of ignition. Cool container with spray water from a safe distance.

#### **SECTION 6: Accidental release measures**

##### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes. Ventilate thoroughly. Do not inhale vapors / aerosols. In closed rooms for fresh air. Open flames extinguish. Remove sources of ignition.  
Do not smoke. Avoid sparks. All persons whose presence is not necessary to remove from the affected area. Shut off leaks, if possible without entering into a personal risk.

##### **6.2. Environmental precautions**

Prevent contamination of water and soil. Entering drains or waterways prevented by making a barrier with sand, earth or other appropriate barriers.  
Do not discharge into the subsoil / soil. Avoid seepage into the ground or drains through appropriate measures.

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

Small amounts (up to 100g) with plenty of water and flush away large quantities with universal binder (mica, diatomaceous earth) and the burning out or disposed of as hazardous waste.

##### **6.4. Reference to other sections**

Danger of explosion. Firefighters and water protection authorities if liquid enters drains. Fumes can combine with air to form an explosive mixture.

#### **SECTION 7: Handling and storage**

##### **7.1. Precautions for safe handling**

**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 4 von 10

**Advice on safe handling**

Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin. Extinguish all open flames, remove ignition sources, prevent sparks. Do not smoke.  
Precautionary measures against electrostatic discharge or take. Ground all devices.  
Work under hood. Do not inhale substance.  
Avoid generation of vapors / aerosols.

Do not empty into drains.  
Working temperature: room temperature.

**Advice on protection against fire and explosion**

Temperature class (DIN 57 165): T2  
Explosion group (DIN 27 165): II A

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

Keep away from direct sunlight and other heat or ignition. In the storage area not smoke. Keep container tightly closed and in a well-ventilated place. Storage temperature: room temperature. No light metal container. No zinc, natural rubber, butyl rubber, polystyrene, EPDM  
Suitable material: Teflon, polyester, glass, stainless steel  
Provide solvent resistant, sealed floor.

**Advice on storage compatibility**

Do not store together with oxidizing and self-igniting substances and flammable solids.

**Further information on storage conditions**

TRbF 100 and TRbF 180 observe.

**Storage class TRGS 510:** 3A

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Occupational exposure limits (TRGS 900)

CAS-Nr.	Designation	ppm	mg/m <sup>3</sup>	F/m <sup>3</sup>	Limit.	Art
67-63-0	Propan-2-ol	200	500		2(II)	

Biological limit values (TRGS 903)

CAS-Nr.	Designation	Parameter	Limit	Unters.- material	Samples - Time
67-63-0	2-Propanol	Aceton	50 mg/l B		b

**Additional advice on limit**

The lists valid during the making were used as basis.

**8.2. Exposure controls****Limiting and monitoring exposure in the workplace**

Pregnancy group C.  
Peak limitation category: II, 1 (see Technical Rule 900).

**Protective and hygiene measures**

Product of food, drink and animal feeding stuffs. Change contaminated clothing immediately. Preventive skin protection. Wash hands and face after work and before breaks. Selection and use of personal protective equipment will depend on the hazards of the product risk from the workplace and of the operation from.

**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 5 von 10

In general, we recommend as a minimum safeguard the wearing of safety glasses with side shields and work clothes, arms, legs and body be used. In addition, each person should at least take into account the area where this product is processed or handled, safety glasses with side shields.

**Respiratory protection**

Can the air concentrations exceeding the limits indicated, the following equipment is recommended: filter half mask to protect against inhalation overexposure. The selection of the filter material depends on the working conditions and the various chemicals from, but filter material of the type "A" or similar may be considered.

**Hand protection**

When handling this product, wear the following equipment is recommended: Chemical resistant protective gloves. The selection of suitable gloves should be replaced at first signs of wear. Butyl rubber gloves. Due to the large variety of instructions for the glove manufacturer's instructions

**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.

Penetration time of glove material the exact break through time has to be found out by the protective glove manufacturer and must be observed. Gloves are made of the materials for the permanent contact:

Natural rubber (latex)

butyl rubber

nitrile rubber

As protection from splashes gloves made of the following materials are suitable: Neoprene gloves

**Eye protection**

Tightly sealed goggles.

**Body protection**

Protective clothing should be selected specifically for the workplace in their execution on concentration and quantity. The resistance of the protective equipment should be inquired at the respective supplier.

Protective work clothing

Safety shoes or boots

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

**Physical state:** liquid  
**Colour:** clear  
**Odour:** Alcohol-like

Test method

**pH-Value:** neutral  
**Flash point:** 17° C  
**State changes**  
**melting temperature:** not determined  
**Density:** 0,82 g/cm<sup>3</sup> fully miscible in water 100% g/L

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Avoid: Heat, flames and sparks.

At normal pressure distilled without decomposition



## MSDS-Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Wintersteiger special machine cleaner 1 and 5 L (new)

Print date: 26.03.2013

Page 6 von 10

#### 10.5. Incompatible materials

Alkali metals, alkaline earth metals, aluminum, oxidizing agents (such as perchlorate, chromium (VI) oxide, nitric acid, nitrogen oxide, hydrogen peroxide), organic nitro compounds  
Reactions: Dangerous with acids, alkalis and oxidizing agents

#### 10.6. Hazardous decomposition products

no known hazardous decomposition products.

#### More information

highly flammable, hygroscopic,  
Solvent for oils, rubber;  
Unsuitable materials: various plastics, rubber  
Explosive mixtures in vapor / gaseous state with air.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicological tests

##### **Acute toxicity**

Data for pure IPA:  
67-63-0 propan-2-ol  
Oral LD50 3600 mg / kg (mouse)  
Source: RTECS  
4570-5840 mg / kg (rat)  
Dermal LD50 12800-13400 mg / kg (rabbit)  
Inhalation LC50/4h 30-73 mg / l (rat)

CAS-Nr.	Designation routes of exposure	Method	Dose	Species	Source
67-63-0	oral	LD50 mg/kg	> 2000	Rat	Information taken from reference works and literature.
	dermal	LD50 mg/kg	> 2000	Rabbit	Information taken from reference works and literature.
	inhalation (4 h) Dampf	LC50	46,5 mg/l	Rat	

##### **Irritation and corrosivity**

on the skin:

Frequent or prolonged skin contact may defat the skin and dry out, which can lead to skin irritation and skin inflammation (dermatitis).

The skin irritation was observed with the OECD Test Method 404. A unique 4-hour, semi-occlusive application to the healthy rabbit skin produced minimal signs of irritation (erythema or edema mean values of less than 2). The degree of irritation was insufficient to warrant labeling as a skin irritant.

on the eye:

The eye irritation was examined by the OECD test method 405. A one-time application to the eye of a rabbit produced severe conjunctival irritation, corneal injury and iritis. Available data show that the product is irritating to the eyes.

##### **Sensitizing effects**

No sensitizing effects known.

##### **Severe effects after repeated or prolonged exposure**

According to reports, an inhalation causes a decreased activity and anesthesia. Repeated inhalation exposure for 13 weeks resulted in only at 5000 ppm toxic effects and Renal changes in male rats of unknown biological significance. Lifetime inhalation exposure at levels of 2500 ppm produced during the following species impair kidney function: rat



## MSDS-Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Wintersteiger special machine cleaner 1 and 5 L (new)

Print date: 26.03.2013

Page 7 von 10

Lifetime inhalation exposure at levels of 2500 ppm showed treatment-related changes in the following species: rats mice. It affects the following tissues were observed: liver, kidney

#### Carcinogenic, mutagenic and reproductive toxic effects

Several studies investigating the potential of isopropanol for induction of birth defects have been found to be negative. A delayed fetal development were observed at high doses which were toxic to the mother.

Mutagenicity:

The product showed (with and without metabolic activity), no mutagenic activity in the following systems: Salmonellentyphimurium. Ovary cells from Chinese hamsters. The product did not show any mutagenic or clastogenic activity in a variety of bacterial and mammalian systems in vitro.

Carcinogenicity:

There were no signs of carcinogenicity in the following species: rats, mice

#### General remarks

applies to component: isopropanol

Acute toxicity:

Relevant for classification LD / LC 50 values:

LD50 (oral, rat): 5045mg/kg

LC50 (inhalation, rat): 46.5 mg / l / 4h

LD50 (dermal, rabbit) 12800mg/kg

Specific symptoms in animal studies:

Skin irritation test (rabbit): Moderate irritation.

Subacute to chronic toxicity:

A risk de fetus not to be feared if the occupational threshold limit value

Not carcinogenic in animal experiments.

No impairment of reproductive performance in animal experiments.

No teratogenic effect in animal experiments.

Sensitization test (guinea pig): negative

Further toxicological information

After inhalation: Irritation symptoms in the respiratory tract. Drowsiness, dizziness.

After skin contact: Degreasing effect on the skin, possibly followed by secondary inflammation.

Eye contact: irritation

After absorption: headache, dizziness, intoxication, unconsciousness, narcosis.

After uptake of large quantities: respiratory paralysis, coma

Further information: The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

### 12.1. Toxicity

Biological effects: Toxic effect on fish and plankton. Caused when used properly according to current knowledge, no disturbance in wastewater treatment. Risk of formation of explosive vapors above water surface possible.

**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 8 von 10

Toxicity to fish:

Pimephales promelas LC50: 9640mg/96h

Daphnia toxicity: Daphnia magna EC50: 13299mg / l / 48h.

Toxicity to algae: Scenedesmus suspicatus IC50:&gt; 1000mg / l / 72h.

Toxicity to bacteria: Photobacterium phosphoreum EC50: 22000mg/l/15 min Microtox test.

Toxic concentration: Toxicity to algae: Scenedesmu quadricauda IC5: 1800 mg / l 8d

Toxicity to bacteria: Pseudomonas putida EC5: 1050mg / l 16h

Mycrocystis aeruginosa EC5: 100mg / l 8d

Protozoa: Entosipon sulcatum EC5: 4930mg / l / 72h

CAS-Nr.	Designation	Method	Dose	n Species	Source
67-63-0	Isopropyl alcohol				
	Acute toxicity to fish	LC50	> 100 mg/l	96 Leuciscus idus melanotus	48h
	Acute Toxicity to algae	ErC50	> 1000 mg/l	72 Scenedesmus subspicatus	
	Acute crustacea	EC50	13299 mg/l	48 Daphnia magna	

**12.2. Persistence and degradability**

This product is rapidly degraded and is "completely" biodegradable acc. OECD guidelines. It is expected that this substance is removed in a wastewater treatment plant.

The product is easily biodegradable. BOD20 => 78% of ThOD. It is proved that it is degraded under anaerobic conditions.

**12.3. Bioaccumulative potential**

Product is not expected to bioaccumulate. Predicted bioconcentration factor = 1

Bioconcentration factor = -19 for the following species: fish Klump

Partition coefficient n-octanol/water

CAS-Nr.	Designation	Log Pow
67-63-0	Isopropyl alcohol	0,05

**12.4. Mobility in soil**

The product dissolves in water quickly to. The product is primarily into the aqueous phase. Spread rapidly if released into the air. The product evaporates presumably from the ground, but only slowly out of the water. The product should not attach to organic matter in soil / sediments.

**12.6. Other adverse effects**

The product is not classified as dangerous to aquatic species.

Tests on the following species arise 96h LC50 of 9600 mg / l Wrasse minnows.

Tests on the following species arise 24h LC50 of 4600 mg / l Daphnia.

Toxicity threshold concentration of 1800 mg / l seaweed

Bacterial inhibition assays show that the material for the biomass is not inhibit

**More information**

ThSB: 2,4g/g.

BSB 49% von ThSB/ 5d.

CSB: 96% von ThSB

Water hazard class (WGK) 1 (KBwS): slightly hazardous for water

Do not allow undiluted undiluted product or large quantities into drains, surface water or ground water.

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



**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 9 von 10

**Recommendation**

Disposal according to official regulations. Must not be disposed together with household garbage. Do not empty into drains.

**Waste code**

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; Wastes from fine chemicals and chemical products not; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

**Waste of used product**

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; Wastes from fine chemicals and chemical products not; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150199 PACKAGING ABSORBENTS, WIPES, FILTER MATERIALS AND PROTECTIVE CLOTHING (not otherwise specified); Packaging (including separately collected municipal packaging waste)

Disposal of contaminated packaging and recommended cleaning  
Water, if necessary together with cleansing agents.

**SECTION 14: Transport information****Landtransport (ADR/RID)**

**14.1. UN number:** 1219  
**14.2. UN proper shipping name :** ISOPROPANOL (ISOPROPYL)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3

Danger code:

**Inland waterways transport (ADN)**

**14.1. UN number:** 1219  
**14.2. UN proper shipping name:** ISOPROPANOL (ISOPROPYL)  
**14.3. Transport hazard class(es):** 3

**Marine transport (IMDG)**

**14.1. UN number:** 1219  
**14.2. UN proper shipping name:** Isopropyl alcohol  
**14.3. Transport hazard class(es):** 3.2  
**14.4. Packing group:** II

**Air transport (ICAO)**

**14.1. UN number:** 1219  
**14.2. UN proper shipping name:** Isopropyl alcohol  
**14.3. Transport hazard class(es):** 3

**MSDS-Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Wintersteiger special machine cleaner 1 and 5 L (new)**

Print date: 26.03.2013

Page 10 von 10

**14.4. Packing group:** II**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Accident Ordinance:** Element Group 2 (flammable liquids)**Catalog no. gem. StörfallVO:  
quantity thresholds:****Water hazard class:** B - liquid with Flpkt. <21 ° C and water-soluble**Technical Instructions on Air Quality III:****quantity:** 70,0 3.1.7.**Water hazard class:** 1 - slightly hazardous for water**status:** WGK self-classification

Identification number from the catalog of water hazardous substances: 135

**SECTION 16: Other information****Full text of the R phrases mentioned in Section 2 and 3**

Flammable.  
Highly flammable.  
Irritating to eyes.  
Vapours may cause drowsiness and dizziness.

**Full text of H-phrases in section 2 and 3**

Highly flammable liquid and vapor.  
H319 Causes severe eye irritation.  
H336 May cause drowsiness and dizziness.

**More information**

The information is based on present level of our knowledge but does not guarantee any specific product features and shall not establish a legally valid contractual relationship.  
The product is intended for industrial processing / use.  
The information contained in this safety data sheet to the best of knowledge provide information on safe handling of the product. They are not representations in the legal sense, existing laws and regulations must be observed by the recipient of our products at his own responsibility.

---

(The data for the hazardous ingredients were taken respectively from the last version of the data sheet.)