

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9**Article number:** 1953**Registration number**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

No further relevant information available.

Application of the substance / the mixtureCleaning agent/ Cleaner
Laboratory chemical**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Carl Roth GmbH + Co. KG
Schoemperlenstraße 3-5
76185 Karlsruhe
Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: sicherheit@carlroth.de

Further information obtainable from: Department Health, Safety and Environment**1.4 Emergency telephone number:**

Poison Centre Munich

Telefon +49/(0)89 19240

2 Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10: Flammable.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

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

Hazard pictograms

GHS02

GHS07

Signal word Warning

(Contd. on page 2)

Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 1)

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

Additional information:

-

2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 67-63-0 EINECS: 200-661-7 Index Number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ----- ☒ Flam. Liq. 2, H225; ☒ Eye Irrit. 2, H319; STOT SE 3, H336	10-<15%
	anionic surfactants ☒ Xi R36/38 ----- ☒ Skin Irrit. 2, H315; Eye Irrit. 2, H319	3-<10%

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

**4.1 Description of first aid measures****General information:**

Remove any clothing soiled by the product.

After inhalation:

Supply fresh air.

After skin contact:

Wash with water and soap.

After eye contact:

Rinse opened eye for 10 minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 3)

**Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9**

(Contd. of page 2)

After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.
May cause suffocation if foam is formed.
If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

In the event of fire development of hazardous combustion gases or vapours possible.
Carbon monoxide and carbon dioxide

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

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

Do not inhale vapours. Avoid contact with the eyes and skin.
Keep away from ignition sources.
Wear personal protective equipment.
Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).
Dispose of the material collected according to regulations.

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.

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

Use only in well ventilated areas.

(Contd. on page 4)

Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 3)

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Keep away from sources of ignition and heat.

Keep container tightly sealed.

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
---------------------	--

DNELs

Worker

Long-term exposure - systemic effects:

67-63-0 propan-2-ol

Dermal	DNEL	888 mg/kg (worker)
Inhalative	DNEL	500 mg/m ³ (worker)

Consumer

Long-term exposure - systemic effects:

67-63-0 propan-2-ol

Oral	DNEL	26 mg/kg (worker)
Dermal	DNEL	319 mg/kg (Customer)
Inhalative	DNEL	89 mg/m ³ (Customer)

PNECs

67-63-0 propan-2-ol

PNEC	28 mg/kg (Soil)
	141 mg/l (Marine water)
	552 mg/kg (Mws)

(Contd. on page 5)

Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 4)

	552 mg/kg (Fresh Water sediment) 141 mg/l (Fresh Water)
--	--

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Do not eat, drink or smoke while working.
Avoid close or long term contact with the skin.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter P1 (colour code: white)

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile, thickness: ≥ 0.11 mm

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

Value for the permeation: Level ≥ 6

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

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

Nitrile rubber, thickness: ≥ 0.11 mm

(Contd. on page 6)

Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 5)

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Product specific
Odour threshold:	No information available.

pH-value at 20 °C: 9

Change in condition

Melting point/Melting range:	No information available.
Boiling point/Boiling range:	> 85 °C

Flash point: 32 °C

Flammability (solid, gaseous): No information available

Ignition temperature: No information available

Decomposition temperature: No information available

Self-igniting: Product is not self-igniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

Explosion limits:

Lower:	No information available.
Upper:	No information available.

Oxidizing properties: No information available.

Vapour pressure: Not determined.

Density at 20 °C:	0.98 g/cm ³
Vapour density	No information available
Evaporation rate	No information available

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient (n-octanol/water): No information available

Viscosity:

Dynamic at 20 °C:	2 mPas
Kinematic:	No information available.

(Contd. on page 7)



Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 6)

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

Fumes can combine with air to form an explosive mixture.

10.2 Chemical stability**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.

10.4 Conditions to avoid

warmth/heat

10.5 Incompatible materials:

No information available.

10.6 Hazardous decomposition products:

In case of fire: see item 5.

11 Toxicological information

11.1 Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****67-63-0 propan-2-ol**

Oral	LD0	3570 mg/kg (Men) (RTECS)
	LD50	5045 mg/kg (rat) (RTECS)
Dermal	LD50	12800 mg/kg (rabbit) (RTECS)
Inhalative	LC50/4 h	72.6 mg/l (rat) (IUCLID)

Primary irritant effect:**on the skin:**

Slight irritations.

on the eye:

Slight irritations

Sensitization:

No sensitizing effects known.

CMR effects:**Germ cell mutagenicity:**

No information available.

Carcinogenicity:

No information available.

Reproductive toxicity:

No information available.

Aspiration hazard:

No information available.

(Contd. on page 8)



Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 7)

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Further information:

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

12 Ecological information

12.1 Toxicity**Aquatic toxicity:**

Fish toxicity:	
67-63-0 propan-2-ol	
LC50	1400 mg/l/96 h (Lepomis macrochirus) (ECOTOX-Database)
Daphnia toxicity:	
67-63-0 propan-2-ol	
EC50	> 13000 mg/l/48 h (Daphnia magna) (IUCLID)
Algal toxicity:	
67-63-0 propan-2-ol	
IC50	> 1000 mg/l/72 h (Scenedesmus quadricauda) (IUCLID)

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.

Ecotoxicological effects:**Remark:**

Do not allow to enter waters, waste water, or soil!

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation**

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No. 1907/2006



Printing date 03.12.2013

Version number 2

Revision: 03.12.2013

Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9


(Contd. of page 8)

Uncleaned packaging:**Recommendation:**

Disposal according to official regulations.

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

14 Transport information

14.1 UN-Number	
ADR, IMDG, IATA	UN1987
14.2 UN proper shipping name	
ADR	1987 ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
IMDG, IATA	ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
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:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E,S-D
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
UN "Model Regulation":	UN1987, ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III

(Contd. on page 10)



Trade name: ROTI-PLASTICLEAN®, plastic cleaner with antistatic effect, pH 9

(Contd. of page 9)

15 Regulatory information

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

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Breakdown regulations:

Waterhazard class:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R11 Highly flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Department: Health, Safety and Environment

Contact: Herr Heine

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport 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 Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50*: Lethal Dose, 50 percent (Not relevant for classification)

LD50*: Lethal Concentration, 50 percent (Not relevant for classification)

* **Data compared to the previous version altered.**