Date of issue: 05.05..2010 Replaces Data Sheet of: 15.07.2008

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



1 Identification of Substance / Preparation and Company

Identification of Substance or Preparation

Trade Name: CLEANLIKE Oberflächenreiniger mit Orangenterpenen

Use : Surface cleaner, liquid **Preparation No. :** I4001

Company / Undertaking Identification

Address of the Manufacturer:

WAREG Verpackungs - GmbH, Lilienthalstraße 55 – 57, 64625 Bensheim, Germany

Telephone: +49 6251 8450 0, Telefax: +49 6251 8450 39

Contact Person:

Mr. Neumann; eMail: andy.neumann@wareg-gmbh.de

Address of the supplier:

Coolike Regnery GmbH, Lilienthalstraße 2 – 4, 64625 Bensheim, Germany

Telephone: +49 6251 8450 0, Telefax: +49 6251 8450 55

Responsible:

CHEMCO123 ® - Chemical Consultancy, graduate chemist, R. Fechner

Emergency - Telephone

Information Centre Specialising Emergency - Telephone of in Symptoms of Poisoning Company / Undertaking Telephone: +49 6131 1924 0 oder 2324 66 (with costs) Telephone: +49 6251 8450 0

2 Hazards Identification

For Humans:

Classification:

R 10: Flammable.

R 67: Vapours may cause drowsiness and dizziness.

Additional advice:

May form highly flammable vapour-air mixture. May cause skin and eye irritation.

Excessive inhalation of vapors can cause respiratory irritation. Degreases skin.

Resorption through skin is possible (Butanone c < 0.5 %). May cause lung damage if swallowed.

For the Environment:

Slightly water contaminating.

3 Composition / Information on Ingredients

Chemical Characterisation:

Aqueous alcoholic solution with special active cleaning agents

Dangerous Ingredients:

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R - phrases
67-63-0	603-117-00-0	200-661-7	Propan-2-ol	15 < C < 20 %	F & Xi	R 11-36-67
64-17-5	603-002-00-5	200-578-6	Ethanol	10 - 15 %	F	R 11
107-98-2	603-064-00-3	203-539-1	1-Methoxy-2-propanol	30 - 35 %		R 10
1589-47-5	603-106-00-0	216-455-5	2-Methoxy-1-propanol	< 0,16 %	Т	R 61-10-37/38-41
8028-48-6	n.av.	232-433-8	Orange, sweet, extract	0,5 < C ≤ 1	Xn	R 10-38-43-50/53-65

Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R-phrase(s) under item 16

4 First Aid Measures

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

Remove person to fresh air.

Call physician.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 05.05.2010 Replaces Data Sheet of: 15.07.2008

Skin Contact:

Wash away with water.

If irritation persists consult physician.

Eye Contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:

Do not cause vomiting. Rinse mouth out and drink plenty of water.

Call physician.

Note to Physician:

Symptomatic treatment. Danger of aspiration when vomiting or irrigating stomach.

Continue to monitor for pneumonia and pulmonary oedema.

Special Equipment:

n.av.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water, foam, dry chemicals, CO₂.

Extinguishing Media to Avoid: None.

Fire and Explosion Hazards:

In case of fire, product may form: Organic crackproducts and carbon oxides.

Additional Information: Cool containers at risk with water spray jet.

Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

6 Accidental Release Measures

Personal Precautions:

See Personal Protective Equipment.

Do not inhale vapours. Avoid contact with eyes and skin. Keep away from sources of ignition. Do not smoke.

Environmental Precautions and Methods for Cleaning up:

Do not allow larger quantities to enter drainage. Inform responsible authorities after accidental conduction.

Soak up with absorbent material. Flush away residues with water.

Further Information:

Use personal protective clothing.

7 Handling and Storage

Handling

Precautions for Safe Handling:

Provide sufficient ventilation. Keep container tightly closed. Close container straight after use or if empty.

Precautions in Case of Fire and Explosion:

Keep away from sources of ignition, do not smoke.

Storage

Storage Instructions:

Floor must be resistant against solvents.

Store away from:

Do not store together with oxidizing agents.

Further Information on Storage Conditions:

Provide sufficient ventilation. Protect from sun.

Storage Class: 3A (VCI – Concept for Germany)

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 05.05.2010 Replaces Data Sheet of: 15.07.2008

8 Exposure Controls and Personal Protection

Information on System Design:

Provide sufficient air exchange and/or exhaust in work rooms. Provide personal protective equipment.

Exposure Limits:

CAS / Material Limit Value according to TRGS 900/ EC Guidline 2000/39:

67-63-0 / Propan-2-ol 200 ppm, 500 mg / m³, Y 64-17-5 / Ethanol 500 ppm, 960 mg / m³ , Y 107-98-2 / 1-Methoxy-2-propanol 100 ppm, 375 mg / m³ , Y

1589-47-5 / 2-Methoxy-1-propanol 5 ppm, 19 mg / m^3 , resorption through skin is possible 541-85-5 / 5-Methyl-3-heptanone (C < 0,3 %) 10 ppm, 53 mg / m^3 , Y, resorption through skin is

possible

Personal Protective Equipment General Protection and Hygiene:

Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated clothing

immediately. Do not inhale vapours.

Respiratory Protection: If ventilation is insufficient, wear respiratory protection (Short term: filter apparatus A)

Hand Protection:

Excessive exposure: If prolonged skin contact use protective gloves according to EN 374. (butylrubber).

Break through time: > 480 Min. Glove thickness: 0,7 mm.

Short time exposure: Gloves according to EN 374. (butyl rubber).

Break through time: > 30 Min. Glove thickness: 0,4 mm. Refer to manufacturer of gloves for detailed information.

Eye Protection : Tightly fitting safety goggles. **Skin Protection :** Light protective clothing

Further Information : None.

9 Physical and Chemical Properties

Appearance
Form: liquid
Colour: colourless
Odour: alcohol-like - fruity

Safety Relevant Data

pH-value, undiluted: n.av
Boiling point / Boiling - range (°C): n.av
Melting point / Melting range (°C): n.av.
Flash point (°C, c.c.): 21< FP < 63

Flammability (EC A10/A13): n.av. Ignition temperature (°C): n.av. Autoflammability (EC A16): n.av. Oxidising properties: No. Explosion hazard: No.

Explosion limits (Vol.%) lower: n.av., upper: n.av.

Vapour pressure : n.av.

Density (g/ml) : n.av.

Solvibility (in M/star) : mineit

Solubility (in Water): miscible soluble in most organic solvents.

Partition coefficient, n-Octanol/Water: n.av.
Viscosity: n.av.
Solvent separation test: n.av.
Solvent content (m %): ~65
VOC g / kg: ~650
Fat Solubility: yes

Further Data

Thermal decomposition (°C): n.av. Vapour density (Air = 1): n.av. Evaporation rate: n.av.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 05.05.2010 Replaces Data Sheet of: 15.07.2008

10 Stability and Reactivity

Conditions to Avoid : Sparks, flames.

Materials to Avoid : Reactions with oxidizer.

Hazardous Decomposition Products: No dangerous decomposition products when properly handled.

Further Information: None.

11 Toxicological Information

Toxicological Tests:

Acute Health Effects of the preparation: Inhalation, LC $_{50}$ rat, (mg/l/4h): n.av.

Ingestion, LD50 rat, (mg/kg): n.av. Skin - contact, LD50 rat, (mg/kg): n.av.

Irritation (to skin / eye): May cause skin and eye irritation.

Sensitisation: Not sensitizing.

Acute Health Effects of Propan-2-ol:

Ingestion, LD₅₀ human, (mg/kg): 3570 Ingestion, LD₅₀ rat, (mg/kg): 5045 Skin - contact, LD₅₀ rabbit, (mg/kg): 12800

Acute Health Effects of Ethanol:

Subacute / Chronic Toxicity:

Carcinogenicity: No. Mutagenicity: No.

Teratogenicity: Will probably not be a risk, if TLV is observed.

Narcotic Effects: Vapours may cause drowsiness and dizziness.

Practical Experience

Observations relevant for classification:

None.

2006/8.

Further Observations:

According to IFRA - recommendation, information 1226, dated from 07.28.99 Orange, sweet, extract would be labelled with R 65.

General Remarks:

Classification of the preparation has been done by calculation in accordance with EC directives 1999/45 and $\frac{1}{2}$

12 Environmental Information

Elimination (Persistence and Degradability):

The product is biodegradable.

Behaviour in Sewage Works :

Mobility and Accumulation Potential: n.av.

According to present knowledge no negative ecological reactions are to be expected.

Ecotoxic Effects, Aquatic Toxicity:

Slightly water contaminating.

Other Ecological Information

COD-Value, mg/g: n.av.

BOD₅-Value, mg/g: n.av.

AOX-Remarks: Product does not contain any organic halogens. Persistent, bioaccumulative and toxic substances (PBT-substances): None

Very persistent and very bioaccumulative substances (vPvB-substances): Orange, sweet, extract

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 05.05.2010 Replaces Data Sheet of: 15.07.2008

13 Disposal Considerations

Residues

Recommendation: D10 / R4 Waste - Code - No.: 07 01 04

In addition comply with the regional authorities.

Safe Handling: See item 7 and 15. **Contaminated Packaging**

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

14 Transport Information

Transportation by Road or Railway according to ADR/GGVS and RID/GGVE

Remarks: Class: 3

Classification Code: F1 Packing Group: III

Instructions for Transportation in Tanks: Hazard-No.: 30 / LGBF

UN-No.: 3092

Transport category (Tunnel restriction code): 3 (D/E)

Instruction Concerning Shipper's Declaration and Packaging:

Volume or Mass	Description of Goods	Risklabel	Packing - Code or marginal
5 litres per inner packing and not more than 30 kg gross weight	UN 3092	n.ap.	LQ7
	UN 3092 1-Methoxy-2-Propanol	3	P001

Classification for Transportation by Vessels according to IMDG/GGVSee

Remarks:

Class: 3 UN-No.: 3092 Packing Group: III

EmS-Fire / Leak: F-E; S-D MFAG-Table: Main MFAG dated from 02.01.2001

Marine Pollutant: No.

Instruction for Declaration and Labelling:

(Packing sizes with possible exemptions not considered) **Proper Shipping Name :** 1-Methoxy-2-Propanol (Solution)

Risk Label: Flammable Liquid

Remarks: None.

Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks:

Class: 3 UN-No.: 3092 Packing Group: III

Instruction for Declaration and Labelling:

(Packing sizes with possible exemptions not considered) **Proper Shipping Name**: 1-Methoxypropan-2-ol (Solution)

Risk Label: Flammable Liquid

Packing Instructions, Passenger: 309 Cargo: 310

Remarks: None.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 05.05.2010 Replaces Data Sheet of: 15.07.2008

15 Regulatory Information

Classification according to EC-directive 1999/45:

Hazard Identification: Flammable Hazard Symbol(s): n.ap.

R-Phrases:

R 67: Vapours may cause drowsiness and dizziness.

Contains: Orange, sweet, extract. May produce an allergic reaction.

S-Phrases:

S 2: Keep out of reach of children.

S 23: Do not breathe vapour.

S 24/25 - Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Further EC - regulations:

Regulation (EC) No 648/2004 of the European Parlament and of the Council of 31 March 2004 on detergents. Yes.

Additional advice: Contains less than 5 % anionic surfactants, Citral, d-Limonen

The above mentioned classification is valid for distribution to industrial user / private consumer. Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

16 Other Information

R-Phrases:

(R 10 - Flammable.)

R 67 - Vapours may cause drowsiness and dizziness.

R -phrase(s) under item 3:

R 11 - Highly flammable.

R 36 - Irritating to eyes.

R 38 - Irritating to skin.

R 41 - Risk of serious damage to eyes.

R 43 - May cause sensitization by skin contact.

R 61 - May cause harm to the unborn child.

R 65 - Harmful: may cause lung damage if swallowed.

R 37/38 - Irritating to respiratory system and skin.

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information to work out the Data sheet:

Dta of the manufacturer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge (2009/2/ECand are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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Date of issue: 04.05.2010 Replaces Data Sheet of: 10.06.2008

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



m%-range Symbol R-phrases

1 Identification of Substance / Preparation and Company

Identification of Substance or Preparation

Trade Name: Cleanlike Bildschirmreiniger ohne Alkohol

Use: Screen Cleaner, liquid **Preparation No.:** 12993

Company / Undertaking Identification

Address of the Manufacturer:

WAREG Verpackungs - GmbH, Lilienthalstraße 55 - 57, 64625 Bensheim, Germany

Telephone: +49 6251 8450 0, Telefax: +49 251 8450 39

Contact Person:

Mr. Neumann; eMail: andy.neumann@wareg-gmbh.de

Address of the supplier:

Coolike Regnery GmbH, Lilienthalstraße 2 – 4, 64625 Bensheim, Germany

Telephone: +49 6251 8450 0, Telefax: +49 6251 8450 55

Responsible:

CHEMCO123 ® - Chemical Consultancy, graduate chemist, R. Fechner, 26 05254 9575 05

eMail: info@chemco123.de Emergency - Telephone

Information Centre Specialising Emergency - Telephone of in Symptoms of Poisoning Company / Undertaking Telephone: +49 6131 1924 0 oder 2324 66 (with costs) Telephone: +49 6251 8450 0

2 Hazards Identification

For Humans:

Classification:

The product does not need to be labelled in accordance with EC directive 1999/45.

Additional advice:

May cause skin and eye irritation in susceptible persons. Repeated contact may cause allergic reactions in very susceptible persons. Resorption through skin possible.

Material

For the Environment:

Not water endangering.

3 Composition / Information on Ingredients

Chemical Characterisation:

Index - No.

Aqueous solution with special active agents

Dangerous Ingredients:

Remarks:

EC - No.

Classification and labelling of a product is indicated under item 15. Exposure Controls / Personal Protection under item 8

R-phrase(s) under item 16

4 First Aid Measures

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

CAS - No.

Not relevant.

Skin Contact:

Wash away with water.

Consult a physician if allergic reactions are happended.

Eye Contact:

Flush eyes out immediately with large amounts of water with eye lids lifted.

If irritation persists consult physician.

Ingestion:

Do not cause vomiting. Rinse mouth out and drink plenty of water. In the event of symptoms occurring, seek medical treatment.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany; Telephone: +49 6251 8450 0, **Date of issue:** 04.05.2010 **Replaces Data Sheet of**: 10.06.2008

Note to Physician:

Danger of aspiration when vomiting or irrigating stomach. Give anti-foaming agent if necessary.

Special Equipment: n.ap.

5 Fire Fighting Measures

Suitable Extinguishing Media: This material is not combustible; use extinguishing media appropriate for surrounding fire.

Extinguishing Media to Avoid: carbon dioxide

Fire and Explosion Hazards:

In case of fire, product may form: Organic crackproducts, carbon oxides, nitrogenoxides, Hydrogenchloride,

Sulphur oxides and inorganic dust.

Additional Information: None.

Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

6 Accidental Release Measures

Personal Precautions:

See Personal Protective Equipment.

High risk of slipping due to leakage / spillage of product.

Environmental Precautions / Methods for Cleaning up:

No special environmental precautions required. Soak up residues with absorbent material.

Send in suitable containers for recovery or disposal.

Further Information:

None.

7 Handling and Storage

Handling

Precautions for Safe Handling:

No special measures necessary.

Precautions in Case of Fire and Explosion:

The product is not combustible.

Storage

Storage Instructions:

No special measures necessary.

Store away from:

Do not store together with strog oxidizing agents.

Further Information on Storage Conditions:

Affected by frost.

Storage Class: 12 (VCI - Concept)

8 Exposure Controls and Personal Protection

Information on System Design:

Provide personal protective equipment.

Exposure Limits:

CAS / Material

Limit Value according to TRGS 900/ EC Guidline 2000/39:

Even in the case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached.

Personal Protective Equipment

General Protection and Hygiene:

Avoid contact with eyes and skin. Remove contaminated, saturated clothing immediately.

Do not eat or drink while working.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 04.05.2010 Replaces Data Sheet of: 10.06.2008

Respiratory Protection:

Hand Protection:

Excessive exposure: If prolonged skin contact use protective gloves according to EN 374. (vitone).

Break through time: > 480 Min. Glove thickness: 0,7 mm.

Short time exposure: Gloves according to EN 374. (vitone).

No.

Break through time: > 30 Min. Glove thickness: 0,4 mm. Refer to manufacturer of gloves for detailed information.

Eye Protection: Goggles **Skin Protection:** No.

Further Information: The type of protective equipment must be selected according to the

concentration and mount of the dangerous substance at the specific workplace

9 Physical and Chemical Properties

Appearance Form: liquid Colour: colourless Odour: pleasant

Safety Relevant Data

pH-value, undiluted: 6,5 Boiling point / Boiling - range (°C): ca. 100 Melting point / Melting range (°C): n.av. Flash point (°C, c.c.): n.ap. Flammability: n.ap. Ignition temperature (°C): n.ap. Autoflammability: n.ap. Oxidising properties: No. Explosion hazard: No.

Explosion limits (Vol.%) lower: n.ap., upper: n.ap.

Vapour pressure: n.ap. Density (g/ml): n.av. Solubility (in Water): Soluble Partition coefficient, n-Octanol/Water: n.av. Viscosity: like water Solvent separation test: n.ap. Solvent content (m %): n.ap. Fat solubility: No

Further Data

Thermal decomposition (°C): n.av. Vapour density (Air = 1): n.ap. Evaporation rate: n.ap.

10 Stability and Reactivity

Conditions to Avoid: No special measures necessary if used correctly.

Materials to Avoid: Reactions with strong oxidizing agents.

Hazardous Decomposition Products: No dangerous decomposition products when properly handled.

Further Information:

None.

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany;

Telephone: +49 6251 8450 0, Date of issue: 04.05.2010 Replaces Data Sheet of: 10.06.2008

11 Toxicological Information

Toxicological Tests: Acute Health Effects:

Inhalation, LC₅₀ rat, (mg/l/4h): n.av. Ingestion, LD₅₀ rat, (mg/kg): >> 2000 Skin - contact, LD₅₀ rat, (mg/kg): n.av.

Irritation (to skin / eye): May cause eye or skin irritation with susceptible persons.

Sensitisation: Sensitisation, exceeding the expected reactions of sensitive persons are not likely.

Subacute / Chronic Toxicity:

Carcinogenicity: No. Mutagenicity: No. Teratogenicity: No. Narcotic Effects: No.

Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

General Remarks:

Classification of the preparation has been done by calculation in accordance with EC directives 1999/45 and

2006/8.

12 Environmental Information

Elimination (Persistence and Degradability):

The product is biodegradable.

Behaviour in Sewage Works:

Mobility and Accumulation Potential:

According to present knowledge no negative ecological reactions are to be expected.

Ecotoxic Effects, Aquatic Toxicity:

Not water endangering.

Other Ecological Information

COD-Value, mg/g: n.av. BOD₅-Value, mg/g: n.av.

AOX-Remarks: Product contains organic halogens.

Persistent, bioaccumulative and toxic substances (PBT-substances): None Very persistent and very bioaccumulative substances (vPvB-substances): None

13 Disposal Considerations

Residues

Recommendation: D 10 Waste - Code - No.: 07 07 99

In addition comply with the regional authorities.

Safe Handling: See item 7 and 15.

Contaminated Packaging

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

14 Transport Information

Transportation by Road or Railway according to ADR/GGVS and RID/GGVE:

Remarks: No dangerous goods according to ADR

Classification for Transportation by Vessels according to IMDG/GGVSee:

Remarks: No dangerous goods according to IMDG

Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI:

Remarks: No dangerous goods according to IATA-DGR

Company / Distributor:

WAREG Verpackungs – GmbH / Coolike Regnery GmbH, Lilienthalstraße 55 – 57 / 2 – 4, 64625 Bensheim, Germany; Telephone: +49 6251 8450 0, **Date of issue:** 04.05.2010 **Replaces Data Sheet of**: 10.06.2008

15 Regulatory Information

Classification according to EC-directive 1999/45:

The product does not need to be labelled in accordance with EC directive 1999/45.

Further EC – regulations:

Regulation (EC) No 648/2004 of the European Parlament and of the Council of 31 March 2004 on detergents. applicable

*Contains:

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) / formaldehyde / 2-bromo-2-nitropropane-1,3-diol

EC - Directive 1999/13 (VOC) VOC g / kg: not applicable

The above mentioned classification is valid for distribution to industrial user.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

16 Other Information

R-phrase(s):

None.

Further information to work out the Data sheet:

Data of the producer.

* The statements in this Material Safety Data Sheet were made to the best of our knowledge (2009/2/EC) and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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