

Drafted on the basis of the EU Regulation 1907/2006 (REACH)



SAFETY DATA SHEET

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

1.1. Product trade Name TG C DEGREASER

Product number.

- REACH

Registration number Not usable

1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Chemical for industrial purposes Uses advised against - The full wording of any. The identified use categories are listed in point 16.

1.3. Details of the supplier of the safety data sheet Company name and address

TG-Clean ApS

Værkstedvej 24 A

DK-4600 Køge

Tel: +45 4390 8400

Contact person Thomas Gadegaard

Email tg@tg-clean.dk

SDS prepared it 07-12-2015 SDS Version 2.0 1.4. Emergency Contact the Gift Line at tel .: 82 12 12 12 (open 24 hours a day). See section 4 on first aid.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Aerosol 1; H229

Aerosol 1; H222

Skin Sens. 1; H317

Eye Irrit. 2; H319

Aquatic Chronic 3; H412

The full text of the H-phrases is found in section 2.2.

2.2. Label elements

Hazard pictograms



Signal: Danger

Risk etc.: Pressurized container. Can be blown up by heating. (H229)

Extremely flammable aerosol. (H222)

May cause allergic skin reaction. (H317)

Causes serious eye irritation. (H319)

Harmful to aquatic life with long lasting effects. (H412)

General If medical attention is needed, bring the container or label.(P101). Keep out of reach of children. (P102).

Prevention Keep away from heat, hot surfaces, sparks, open flames and others ignition sources. No smoking. (P210).

Reaction IF IN EYES: Rinse cautiously with water for several minutes.

Remove any contact lenses if this can be done easily. Keep rinsing.

(P305 + P351 + P338).

Storage Protect from sunlight. Do not expose to a temperature that exceeds 50 ° C / 122 ° F. (P410 + P412).

Disposal The contents / container is disposed of in accordance with local requirements

waste regulations. (P501).

Compulsory information

orange, sweet, extract

2.3. Other hazards

The product contains organic solvent. Repeated exposure of organic solvents may cause damage to the nervous system and internal organs such as the liver, kidneys.

Other labeling

-

Other things

VOC

-

SECTION 3: Composition / information on ingredients

3.1 / 3.2. Substances / Mixtures

NAME: 1-methoxypropan-2-ol

IDENTIFICATION NUMBERS: CAS No: 107-98-2 EC No: 203-539-1 Index No: 603-064-00-3 CONTENTS: 40-60% CLP

CLASSIFICATION: Flame. Liq. 3 H226

NOTE: S

NAME: Ethanol 99.9%

IDENTIFICATION NUMBERS: CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5

CONTENTS: 25-40%

CLP CLASSIFICATION: Flame. Liq. 2, Eye Irrit. 2 H225, H319

NOTE: S

NAME: propan-2-ol

IDENTIFICATION NUMBERS: CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0

CONTENTS: 15-25%

CLP CLASSIFICATION: Flame. Liq. 2, Eye Irrit. 2, STOT SE 3 H225, H319, H336

NOTE: S

NAME: carbon dioxide

IDENTIFICATION NUMBERS: CAS No: 124-38-9 EC No: 204-696-9

CONTENTS: 3-5%

CLP CLASSIFICATION: Refrig. Liq. Gas H281

NAME: orange, sweet, extract

IDENTIFICATION NUMBERS: CAS No: 8028-48-6 EC No: 232-433-8 Index No: 603-064-00-3 CONTENTS: 1-3% CLP

CLASSIFICATION: Flame. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 1 H226, H304, H315, H317, H410 (M-chronic = 1)

(*) The full text of the H-phrases can be found in point 16. Occupational exposure limits are mentioned in point 8, if available. S = Organic solvent. Other information Drafted on the basis of the EU Regulation 1907/2006 (REACH) TG C DEGREASER 3/9

Eye Cat. 2 Sum = $\sum (C_i / S (G) CL_i) = 3.7984 - 0$

Skin Cat. 2 Sum = $\sum (C_i / S (G) CL_i) = 0.176 - 0.264$

N chronic (CAT 3) Sum = $\sum (C_i / M (chronic) i * 25 * 0.1 * 10^5 CAT_i) = 7.04 - 10.56$

N acute (CAT 1) Sum = $\sum (C_i / M (acute) i * 25) = 0.0704 - 0.1056$

SECTION 4: First aid measures

4.1. Description of first aid measures

In general

In case of accident: Contact a doctor or emergency room - bring the label or this safety data sheet. The doctor can contact the Occupational and Environmental Medicine Clinic, Bispebjerg Hospital, tel. 35 31 60 60. At

If symptoms persist or if in doubt about the condition of the injured person, seek medical attention. Never give an unconscious person water or the like.

inhalation

Bring the person out into the fresh air and keep the person under control.

Skin

Contaminated clothing and shoes are removed. Skin that has been in contact with the material is thoroughly washed with water and

soap. Skin cleanser can be used. Do NOT use solvents or thinners.

eye Contact

Remove any contact lenses. Rinse immediately with water (20-30 ° C) for at least 15 minutes. Seek medical advice.

Ingestion

Give the person plenty to drink and the person under supervision. If you feel sick: Contact your doctor immediately bring this safety data sheet or label from the product.

Do not induce vomiting unless directed to do so by your doctor. Lower your head so that if necessary, vomit will not running back into the mouth and throat.

Incineration

Rinse with copious amounts of water until the pain subsides and then continue for 30 minutes.

4.2. Main symptoms and effects, both acute and delayed

Neurotoxic effects: The product contains solvent which may have an effect on the nervous system.

Symptoms of neurotoxicity may be; loss of appetite, headache, dizziness, rushing of the ears, tingling feelings in the skin, coldness, cramps, difficulty concentrating, fatigue, etc. Repeated exposure to solvents can cause the natural fat layer of the skin to break down. The skin will then be more exposed to the uptake of harmful substances such as allergens.

Sensitizing effects: The product contains substances that may cause an allergic reaction to skin contact.

The allergy reaction typically occurs 12-72 hours after exposure to the allergen and occurs because the allergen penetrates the skin and reacts with proteins in the upper skin layer. The body's immune system perceives it chemically altered protein as a foreign body and will try to break it down.

Irritative effects: The product contains substances which are irritating to the skin or eye contact or inhalation. Contact with irritants may result in more exposure to the contact area absorption of harmful substances such as allergens.

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

No special

Information to the doctor

Please bring this safety data sheet.

SECTION 5: Firefighting

5.1. extinguishing

Recommended: alcohol resistant foam, carbon dioxide, powders, water mist.

Water jet should not be used as it can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, eg in the event of a fire, dangerous can form

degradation products. These are: Carbon oxides. Fire will produce dense black smoke. Exposure to

Degradation products can pose a health hazard. Firefighters should use appropriate protective equipment.

Cool closed containers exposed to fire with water. Do not allow fire extinguishing water to escape sewers and streams.

5.3. Directions for firefighting

Normal workwear and full respirator protection. By direct contact with the chemical can contact the chemical emergency response officer on telephone 45 90 60 00 (open 24 hours a day), with for further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, personal protective equipment and emergency procedures

Uninsured storage is cooled with water mist. If possible, remove combustible materials. Make sure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In case of spillage to the surroundings, contact the local environmental authorities.

Establish possibly waste collection bins / basins to prevent spillage to the surroundings.

6.3. Methods and equipment for containment and purification

Use sand, cat grit, sawdust or universal binder to collect liquids. Cleaning is done for as far as possible with detergents. Solvents should be avoided.

6.4. Reference to other points

See the "Disposal Conditions" section on waste management. See the section on "Exposure controls / personal protection" for protective measures.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling Establish possibly waste collection bins / basins to prevent spillage to the surroundings. See the section "Exposure controls / personal protection" for personal protection information.

7.2. Conditions for safe storage, including any incompatibilities Always store in containers of the same material as the original. Store in a cool, well-ventilated place area away from possible sources of ignition. Be aware that this is a peroxide forming chemical. The peroxide content must be checked regularly after opening / opening, e.g. every 6 months. Storage temperature No data available

7.3. Specific uses The product should only be used for applications described in 1.2.

SECTION 8: Exposure controls / personal protection

8.1. control parameters limits

orange, sweet, extract

Limit value: 25 ppm | - mg / m³

carbon dioxide (AT, (<1994))

Threshold: 5000 ppm | 9000 mg / m³

Note: E (E = Substance has a Community limit value.)

propan-2-ol (AT, 2005)

Limit value: 200 ppm | 490 mg / m³

Ethanol 99.9% (AT, <1994)

Limit value: 1000 ppm | 1900 mg / m³

1-Methoxypropan-2-ol (AT, (1994))

Limit value: 50 ppm | 185 mg / m³

Note: E (E = Substance has a Community limit value.)

DNEL / PNEC

8.2. exposure controls

Compliance with the stated limit values should be checked regularly. See possibly At-guidance D.7.1, May 2001

General precautions common industrial hygiene. exposure scenarios If there is an attachment to this safety data sheet, they must be listed here in the exposure scenarios followed. exposure limit Business users are covered by the rules on occupational health and safety regulations on maximum concentrations for exposure. See occupational hygiene limits above. Technical measures Airborne gas and dust concentrations must be kept as low as possible and below the relevant limit values. (see above). Use if necessary. point extraction if ordinary air flow in the work room is not enough. Provide visible signage of eye wash and emergency shower. Hygiene measures At each break in use of the product and at the end of work exposed areas of the body Wash. Always wash hands, forearms and face.

Environmental exposure controls No special requirements. Personal protective equipment In general Use only CE marked protective equipment. The airways If ventilation at the workplace is not sufficient, use half or full mask with suitable filter or air-supplied respirators. The choice depends on the specific work situation and the duration of the work with the product. Skin and body Special work clothes should be worn. Hands Recommended: Nitrile rubber. : NA Eyes Wear glasses with side shields.



SECTION 9: Physico-chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Color	Odor	pH	Viscosity	Density (G / cm ³)
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Aerosol	Clear	Comfortable	-	-	0.9
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Condition change and fumes	Melting point(° C)	Boiling point (° C)	Vapor pressure (mm Hg)
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-	-	-	-
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Fire and explosion hazard data	Flash point (° C)	Flammability	(° C) Self-ignition (° C)
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36	-	-	-
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Explosion limits (Vol%)	Oxidizing properties
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-	-
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Solubility	Solubility in water	n-octanol / water coefficient
	Soluble	-
9.2. Other information	Solubility in fat	Other
-		N / A

SECTION 10: Stability and reactivity

10.1. reactivity No data

10.2. Chemical stability The product is stable under the conditions specified in the section "Handling and storage".

10.3. Risk of hazardous reactions No special

10.4. Conditions to avoid Drafted on the basis of the EU Regulation 1907/2006 (REACH) TG C DEGREASER 6/9 Avoid static electricity.

10.5. Materials to avoid Strong acids, strong bases, strong oxidizing agents and strong reducing agents

10.6. Hazardous decomposition products The product is not degraded when used for applications listed in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Art	Test	Route of Exposure	Result
orange, sweet, extract	Rat	LD50	Oral	5000 mg / kg
orange, sweet, extract	Rabbit	LD50	Dermalt	> 5000 mg / kg
carbon dioxide	Rat	LD50	Inhalation	470000 ppm
propan-2-ol	Rabbit	LD50	Dermalt	h > 2000 mg / kg
propan-2-ol	Rat	LD50	Oral	5840 mg / kg
propan-2-ol	Rat	LD50	Inhalation	66.1mg / l 4 h
propan-2-ol	Rat	LD50	Inhalation	47,5 mg/l 8 h
Ethanol 99.9%	Rat	LD50	Oral	10470 mg/kg
Ethanol 99.9%	Rabbit	LD50	Dermalt	>17100 mg/kg
Ethanol 99.9%	Rat	LD50	Inhalation	124,7 mg/l
1-methoxypropan-2-ol	Rat	LD50	Oral	<= 5000mg / kg
1-methoxypropan-2-ol	Rat	LD50	Dermalt	> 5000mg / kg

Skin corrosion / irritation

No data available

Serious eye damage / eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell

No data available

Carcinogenic properties

No data available

Reproductive

No data available

Simple STOT exposure

No data available

Repeated STOT exposures

No data available

Aspiration

No data available

long term effects

Neurotoxic effects: The product contains solvent which may have an effect on the nervous system.

Symptoms of neurotoxicity may be; loss of appetite, headaches, dizziness, ringing in the ears, tingling sensations in the skin, coldness, cramps, difficulty concentrating, fatigue, etc. Repeated exposure to solvents can cause the natural fat layer of the skin to break down. The skin will then be more exposed absorption of harmful substances such as allergens.

Sensitizing effects: The product contains substances that may cause an allergic reaction to skin contact.

The allergy reaction typically occurs 12-72 hours after exposure to the allergen and occurs when the allergen penetrates

into the skin and reacts with proteins in the upper skin layer. The body's immune system perceives it chemically altered protein as a foreign body and will try to break it down.

Irritative effects: The product contains substances which are irritating to the skin or eye contact or inhalation. Contact with irritants may result in the contact area becoming more exposed to absorption harmful substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance Art Test Duration of the Test Result

appelsin, sød, ekstrakt appelsin, sød, ekstrakt appelsin, sød, ekstrakt propan-2-ol propan-2-ol propan-2-ol propan-2-ol
propan-2-ol Ethanol 99,9% Ethanol 99,9% Ethanol 99,9% Ethanol 99,9% Ethanol 99,9% 1-methoxypropan-2-ol 1-
methoxypropan-2-ol 1-methoxypropan-2-ol Fisk Alger Dafnier Alger Fisk Dafnier Krebsdyr Krebsdyr Fisk Fisk Dafnier
Alger Krebsdyr Fisk Alger Dafnier LC50 EC50 EC50 NOEC LC50 EC50 EC10 EC50 LC50 LC50 EC50 EC0 EC0 LC50 EC50
EC50 96 h 72 h 48 h 8d 96 h 24 h 18 h 48 h 96h 48 h 168 h 16 h 5,65 mg/l 150 mg/l 1,1 mg/l >1800 mg/l 8970-9280
mg/l 9714 mg/l 5175 mg/l >1000mg/l 8150 mg/l 1100 mg/l 9268-14221 mg/l 5000 mg/l 6500 mg/l >100 mg/l >100
mg/l >100 mg/l

12.2. Persistens og nedbrydelighed

Substans Nedbrydelighed i vandmiljøet Test Resultat appelsin, sød, ekstrakt propan-2-ol Ethanol 99,9% 1-
methoxypropan-2-ol Ja Ja Ja Ja Closed Bottle Test Modified OECD Screening Test Ingen data Ingen data >75% 95%
Ingen data Ingen data

12.3. Bioakkumuleringspotentiale Substans Potentiel bioakkumulerbar LogPow BCF carbondioxid propan-2-ol Ethanol
99,9% 1-methoxypropan-2-ol Nej Nej Nej Nej 0,83 Ingen data Ingen data 0,37 Ingen data Ingen data Ingen data Ingen
data

12.4. Mobility in soil

carbon dioxide: Log Koc = 0.735677, Calculated from LogPow (Potential high mobility.). 1-methoxypropan-2-ol: Log
Koc = 0.371403, Calculated from LogPow (Potential High Mobility.).

12.5. Results of PBT and vPvB assessment

No data

12.6. Other adverse effects

The product contains ecotoxic substances which may have adverse effects on aquatic organisms.

The product contains substances that can cause long-term adverse effects in the aquatic environment due to their poor performance degradability.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is subject to the regulations on hazardous waste.

Trash

EAK Code Chemical Waste Group:

15.02.02 05.14

Special labeling

-

Contaminated packaging

Packaging containing residues of the product is disposed of under the same conditions as the product.

SECTION 14: Transport information

The product is covered by the Dangerous Goods Conventions.

14.1 - 14.4 ADR / RID 14.1. UN number 1950

14.2. UN Shipping Name Aerosols

14.3. Transport hazard class (s) 2.1

14.4. Packaging group - Remarks LQ2 Limited quantities Tunnel Code - IMDG UN-no. 1950 Drafted on the basis of the EU Regulation 1907/2006 (REACH) TG C DEGREASER 8/9 Proper Shipping Name Aerosols Class 2.1 PG * - EmS F-D, S-U MP ** NO Hazardous constituent - IATA / ICAO UN-no. Proper Shipping Name Class PG *

14.5. Environmental hazards -

14.6. Special precautions for user -

14.7. Bulk transport in accordance with Annex II of MARPOL 73/78 and the IBC Code No data (*) Packing group (**)

Marine pollutant

SECTION 15: Regulatory information

15.1. Special provisions / specific legislation on the substance or mixture with regard to safety, health and environment Restrictions The product must not be used commercially by young people under 18 years of age. See Executive Order no. 239 of 6 April 2005 on young people's work exceptions. Special education requirements - Other things - sources The Danish Working Environment Authority's Executive Order 239 of 6 April 2005 on young people's work. Based on the Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work. COUNCIL DIRECTIVE of 20 May 1975 on the approximation of the laws of the Member States relating to aerosols. (75/324 / EEC). The Danish Working Environment Authority's Order on limit values for substances and materials no. 507 of 17 May 2011 with later changes. EU Regulation 1272/2008 (CLP). EU Regulation 1907/2006 (REACH) with adaptations.

15.2. chemical safety No

SECTION 16: Other information

« The full wording of H-phrases discussed in Section 3 H225 - Highly flammable liquid and vapor. H226 - Flammable liquid and vapor. H281 - Contains refrigerated gas, may cause cold damage. 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. H336 - May cause drowsiness or dizziness. H410 - Very toxic with long lasting effects on aquatic organisms.

The full text of identified uses referred to in paragraph 1 - Drafted on the basis of the EU Regulation 1907/2006 (REACH) TG C DEGREASER 9/9 Other symbols mentioned in paragraph 2



Other things It is recommended to provide this safety sheet to the actual user of the product. The information mentioned cannot be used as a product specification. The information in this safety data sheet applies only to the product mentioned in section 1 and is not necessarily applicable when used with other products. Changes in relation to the last significant revision (first digit of SDS Version, see section 1) of this the safety data sheet is marked with a blue triangle. The safety data sheet is validated by KAO Date of last significant change (First digit in SDS version) 03-12-2015 Date of last minor change (Last digit in SDS version) 03-12-2015 ALPHA OMEGA.