CANDY HO	OVER GROUP				
CANDI NOOVER CROOL		Dated 16/02/2017			
FRIDGE	SANITIZER				
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Safety data sheet					
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking.			
1.1. Product identifier. Code: Product name.	CSL4001-35601783 RAPID ACTION HYGIENIZER-FRIDGE AND FREEZER				
1.2. Relevant identified uses of the substance or n Intended use. Detergent	nixture and uses advised against.				
1.3. Details of the supplier of the safety data shee					
Name. Full address. District and Country.	DIANOS SRL VIA S. PELLICO 19 20093 COLOGNO MONZESE (MI) ITALIA				
	Tel. +39022542933				
	Fax. +390227300792				
e-mail address of the competent person.					
responsible for the Safety Data Sheet.	massimo.zibra@dianos.net				
1.4. Emergency telephone number. For urgent inquiries refer to.	+39022542933 Monday – Friday 9.00-18.00				
SECTION 2. Hazards identification.					

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication: Eye irritation, category 2

H319

Causes serious eye irritation.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Warning

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Hazard statements:

H319 EUH208	Causes serious eye irritation. Contains: (R)-P-MENTHA-1,8-DIENE

May produce an allergic reaction.

Precautionary statements:

P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
P103	Read label before use.
P264	Wash your hands thoroughly after handling.
P280	Wear eye protection / face protection.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% non-ioni	c surfactants
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perfumes

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

	e full wording of hazard (H) phrases is given in section Ientification.	on 16 of the sheet.	Classification 1272/2008 (CLP).
IN	IERT		
C	AS	$50 \le x < 100$	
E	C		
IN	IDEX		
P	ROPAN-2-OL		
C	AS. 67-63-0	1≤x< 5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
E	C. 200-661-7		
IN	IDEX. 603-117-00-0		
A	lcol oxo 12OE		
C	AS. 106232-83-1	1≤x< 3	Acute Tox. 4 H302, Eye Dam. 1 H318

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EC. -

INDEX. -

(R)-P-MENTHA-1,8-DIENE CAS. 5989-27-5

 $0 \le x < 0,25$

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Note C

EC. 227-813-5 INDEX. 601-029-00-7

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown. For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

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5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see

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section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
	TLV-ACGIH	ACGIH 2016

PROPAN-2-OL

Threshold Limit Value.	Country	TWA/8h ST		STEL/15min	STEL/15min	
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	500	200	1000	400	
MAK	DEU	500	200	1000	400	
VLEP	FRA			980	400	
WEL	GBR	999	400	1250	500	
TLV-ACGIH		492	200	983	400	

(R)-P-MENTHA-1,8-DIENE

Threshold Lin Type		TW A/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	110	20	220	40		
MAK	DEU	28	5	112	20	SKIN.	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point.	liquid colourless Lemon Not available. 7 Not available. Not available. Not available.
Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Oxidising properties	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. 1,00 kg/L partially soluble Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
9.2. Other information.	
Total solids (250°C / 482°F)	95,89 %

Total Solids (250°C / 482°F)	95,89 %		
VOC (Directive 2010/75/EC) :	4,11 % -	41,10	g/litre.
VOC (volatile carbon) :	2,49 % -	24,93	g/litre.

SECTION 10. Stability and reactivity.

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10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:Not classified (no significant component).

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.D50 (Oral) of the mixture:>2000 mg/kg	
.D50 (Dermal) of the mixture:Not classified (no significant component).	
PROPAN-2-OL	
.D50 (Oral).4710 mg/kg Rat	
D50 (Dermal).12800 mg/kg Rat	
.C50 (Inhalation).72,6 mg/l/4h Rat	
Alcol oxo 12OE	
.D50 (Oral).> 300 mg/kg ratto	
SKIN CORROSION / IRRITATION.	
Does not meet the classification criteria for this hazard class.	
SERIOUS EYE DAMAGE / IRRITATION.	
Causes serious eye irritation.	
RESPIRATORY OR SKIN SENSITISATION.	
Does not meet the classification criteria for this hazard class.	
GERM CELL MUTAGENICITY.	
Does not meet the classification criteria for this hazard class. CARCINOGENICITY.	
Does not meet the classification criteria for this hazard class.	
REPRODUCTIVE TOXICITY.	
Does not meet the classification criteria for this hazard class.	
STOT - SINGLE EXPOSURE.	
Does not meet the classification criteria for this hazard class. STOT - REPEATED EXPOSURE.	
Does not meet the classification criteria for this hazard class.	
ASPIRATION HAZARD.	
Does not meet the classification criteria for this hazard class.	
SECTION 12. Ecological information.	

 12.1. Toxicity.

 (R)-P-MENTHA-1,8-DIENE

 LC50 - for Fish.
 35 mg/l/96h Oncorhynchus mykiss

 EC50 - for Crustacea.
 69,6 mg/l/48h Daphnia pulex

 Alcol oxo 12OE

 LC50 - for Fish.
 > 10 mg/l/96h Carassius auratus

 EC50 - for Algae / Aquatic
 > 10 mg/l/72h Dafnie

 Plants.
 12.2. Persistence and degradability.

 (R)-P-MENTHA-1,8-DIENE

Solubility in water. Rapidly biodegradable. 0,1 - 100 mg/l

PROPAN-2-OL

Rapidly biodegradable.

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12.3. Bioaccumulative potential.

(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-	4,38
octanol/water. BCF.	1022
PROPAN-2-OL	
Partition coefficient: n- octanol/water.	0,05

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

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Not applicable.		
14.3. Transport hazard class(es).		

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product. Point.

3

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

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None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004.

Ingredients according to Regulation (EC) No. 648/2004.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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LEGEND: - ADR: European Agreement concerning the carriage of Dangerous goods by Road CAS NUMBER: Chemical Abstract Service Number CE50: Effective concentration (required to induce a 50% effect) CE NUMBER: Identifier in ESIS (European archive of existing substances) CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level EmS: Emergency Schedule GHS: Globally Harmonized System of classification and labeling of chemicals IATA DGR: International Air Transport Association Dangerous Goods Regulation IC50: Immobilization Concentration 50% IMDG: International Maritime Code for dangerous goods IMO: International Maritime Organization INDEX NUMBER: Identifier in Annex VI of CLP LC50: Lethal Concentration 50% LD50: Lethal dose 50% OEL: Occupational Exposure Level PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: EC Regulation 1907/2006 RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. TWA STEL: Short-term exposure limit TWA: Time-weighted average exposure limit VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German). GENERAL BIBLIOGRAPHY 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament The Merck Index. - 10th Edition Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet) Patty - Industrial Hygiene and Toxicology N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition ECHA website Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. Changes to previous review: The following sections were modified: 02/09/15.