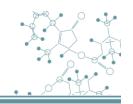
ORMA

ORMA S.r.I.

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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

MATERIAL SAFETY DATA SHEET

according to the regulation 878/2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 - Product details

Trade name: **AIR CONTROL SANITIZER**The product does not contain nanoforms

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

Aerosol sanitizer

Not applicable in other uses than the uses identified.

1.3 – Details of the supplier of the safety data sheet

Manufacturer/Supplier: ORMA S.r.l. - 10028 Trofarello TO-Tel. +39/011.64.99.064 Fax +39/011.68.04.102 Qualified technician on drafting the MSDS: regulatory@ormatorino.it

<u>1.4 – Emergency telephone number:</u>

+39/011.6499064 (ORMA, office hours)

For urgent information, call a Poison Center

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is classified as hazardous according to Directives 67/548/EEC and 1999/45/EC and/or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and amendments). So the product must have the safety data sheet according to Regulation (EC) 1907/2006 and subsequent amendments.

Classification according the CLP Regulation N. 1272/2008 and subsequent modifications and adjustments

Classification	Flammable aerosol; Eye irritation; STOT SE
	Category 1; Category 2; Category 3
GHS Pictograms	GHS02 GHS07
	<u>***</u>
Signal Word	DANGER
Hazard Statement	H222
	H319
	H336
Supplemental hazard information	EUH208

2.2 - Label elements

Hazard labelling of the preparation according to CLP Regulation N. 1272/2008 and subsequent modifications and adjustments:

DANGER





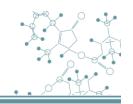
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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

Hazard statements:

H222: Extremely flammable aerosol

H229: Pressurized container: may burst if heated.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Supplemental hazard information:

EUH208: Contains Menthol and Eucalyptus. May produce an allergic skin reaction

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use

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

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50°C.

P501: Dispose of contents/container to an approved waste disposal facility.

2.3 – Other hazards

Not available information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 - Substances: Not pertinent information.

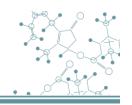
3.2 - Mixture: It contains

Name	Registration	CAS	EINECS	INDEX	CLP Classification	%
	number	N°	N°	N°		
QUATERNARY	N.D.	68424-85-1	264-151-6	N.D.	Acute Tox. 4 H302 H312	
AMMONIUM SALTS					Skin Corr. 1B H314	< 1%
					Aquatic Acute 1 H400	
ISOPROPILIC ALCOHOL	01-	67-63-0	200-661-7	603-117-	Flam. Liq. 2 H225	
	2119457558-			00-0	Eye Irrit. 2 H319	< 30.0%
	25				STOT SE 3 H336	
MENTOHL	N.D.	89-78-1	201-939-0	N.D.	Skin Irrit. 2 H315	< 1%
MINT	N.D.	6817-18-0	290-058-5	N.D.	Acute Tox. 4 H302	< 1%
EUCALYPTUS OIL	N.D.	8000-48-4	283-406-2	N.D.	Flamm. Liq. 3 H226 Asp. Tpx.1 H304 Skin Sens. 1 H317 Aq. Chron. 2 H411	< 1%
PROPANE*	01- 2119486944- 21-XXXX	74-98-6	200-827-9	N.D.	Flamm. Gas 1 H220 Press. Gas H280	> 20,0
N-BUTANE*	01-	106-97-8	203-448-7	N.D.	Flamm. Gas 1 H220	> 20,0



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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

	2119474691-				Press. Gas H280	
	32-XXXX					
ISOBUTANE*	01-	75-28-5	200-857-2	N.D.	Flamm. Gas 1 H220	> 20,0
	2119485395-				Press. Gas H280	
	27-XXXX					

^{*}The commercial composition may contain small amounts of other saturated hydrocarbons (ethane, isobutane and pentane) or unsaturated (butylene or propylene). It CONTAINS 1,3-BTADIENE IN QUANTITY 'MORE THAN 0,1%. Then the classification of Toxic phrases H350 and H340 can be omitted. The full text of hazard (H) phrases is given in section 16. Notes U, K (Annex 1 Directive 67/548 EEC and / or Annex VI to Regulation EC 1272/2008). See section 16.

SECTION 4: FIRST-AID MEASURES

4.1 – Description of first-aid measures

<u>General information:</u> if symptoms persist, seek medical care, giving the information contained in the label and in this sheet. In case of accident, the first-aid measure should be performed by trained personnel, in order to avoid the injured further complication or damages.

After eye contact: Rinse opened eye with water for several minutes and get medical advice.

After skin contact: Immediately wash with plentiful running water.

After inhalation: remove the patient to fresh air; consult get medical advice if necessary.

After swallowing: get medical advice, showing the safety sheet. Do not induce vomiting.

4.2 – Main symptoms and effects, both acute and retarded

For symptoms and effects caused by the substances see section 11. Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident may be necessary.

<u>4.3 – Indications about the possible need to get medical advice and special treatments</u> Symptomatic treatment and control of vital functions.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 - Extinguishing agents:

Suitable extinguishing agents: CO2, dry chemical extinguisher, sand.

Unsuitable extinguishing agents: Water with full jet. Water is not effective for fire-extinguishing, however it can be used to cool down containers exposed to flames, in order to prevent bursts and explosions.

5.2 – Special hazards arising from the substance or mixture

Particular fire dangers: In case of fire, toxic gas and irritating vapours emission.

5.3 - Advice for firefighters

<u>Protective equipment:</u> Wear suitable rebreather (especially in indoor locals) and complete protection outfit.

<u>Special procedures:</u> Contain the spread. Stay upwind. Avoid to breathe vapours. Cool down the containers exposed to fire with nebulized water. Avoid extinguishing water to release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 –Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (see section 8). Ensure adequate ventilation.

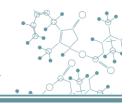
6.2 Environmental precautions

Keep the product away from sewers, fluvial and marine water to avoid environmental pollution (in that case, inform respective authorities).



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Revision 3.0 of October, 4 2022

6.3 – Methods and material for containment and cleaning up

In case of spreading on the ground, stem with sand or soil and collect with absorbing material. Dispose the collected material in disposal container (see Section 13).

<u>6.4 – Reference to other sections</u>

Further information regarding individual protection and disposal are reported in section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 - Precautions for safe handling

WARNINGS FOR SAFE USE: there are no specific precautions in the case of handling closed packages; follow the main instructions for handling. Provide adequate ventilation.

ADVICE AGAINST FIRE AND EXPLOSION: No special precautions are required.

HYGIENE MEASURES: avoid eating, drinking and smoking during use. Use suitable protective clothing (see 8). Immediately remove contaminated clothing and reuse them only after having subjected them to thorough washing. Contaminated work clothing should not be transferred outside the workplace. After handling, wash with soap and water. Ensure good ventilation of workplaces

7.2 - Conditions for safe storage, including any incompatibilities

Store in the original tightly sealed receptacle, away from food and beverages and away from the reach of children and domestic animals. Store in a cool location. Protect from direct sunlight. Where applicable, observe official regulations on storing packaging with pressurized containers.

7.3 - Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 – Control parameters

ISOPROPILIC ALCOHOL	PNEC acqua dolce: 140,9 mg/l	
I SO NOTIES ALEGOTICE	PNEC acqua marina:140,9 mg/l	
	PNEC sedimenti acqua dolce: 552 mg/kg	
	PNEC sedimenti in acqua marina: 552 mg/kg	
	PNEC per il compartimento terrestre: 28 mg/kg	
	DNEL – Effetti sui lavoratori:	
	Cronico sistemico – Dermica 888 mg/kg;	
	Inalazione 500 mg/m3	
	DNEL - Effetti sui consumatori:	
	Cronico sistemico – Dermica 319 mg/kg	
	Inalazione 89 mg/m3; Ingestione 26 mg/kg	
N-BUTANE	TWA: ACGIH 1000 ppm	

8.2 – Exposure controls

General protective measures: Use the preparation according the indication contained in this safety sheet. Use individual protective devices recommended in this section.

Respiratory protection: In not so ventilated environments, where high percentage of product could be present, protect adequately the respiratory tract (mask with suitable filter against gas and solvents).

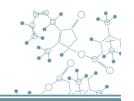
Protection of hands: Use impermeable and chemical substances resistant gloves (EN 374). **Eye protection:** Use safety glasses with side protection, in case of possible contact to eyes.

Body protection: If need use protective coats.



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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state:	Aerosol
Color:	Pale yellow
Odor:	Characteristic
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	-41°C
Flammability:	N.A.
Lower and upper explosion limit:	1.8 vol%-12.0 vol%
Flash point:	N.A.
Auto-ignition temperature:	14°C
Decomposition temperature:	N.A.
pH:	N.A.
Kinematic viscosity:	N.A.
Solubility:	Slight soluble
Partition coefficient: n-octanol/water:	N.A.
Vapour pressure:	43.0 hPa
Density:	N.A.
Relative vapour density:	N.A.
Particle characteristics:	N.A.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

N.A.

<u>9.2.2. Other safety characteristics</u> Explosive Properties: Not explosive

SECTION 10: STABILITY AND REACTIVITY

10.1 - Reactivity

Not particular reactivity danger with other substances under normal operating conditions.

10.2 – Chemical Stability

Stable under normal operating and storage conditions.

10.3 - Possibility of hazardous reactions

No dangerous reactions known.

10.4 - Conditions to avoid

Avoid overheating, electrostatic charge, direct exposition to sun and any lighting source.

10.5 - Incompatible materials

No further relevant information available.

10.6 - Hazardous decomposition products

The thermal decomposition causes the formation of hazardous compounds.

SECTION 11: TOXICAL INFORMATION

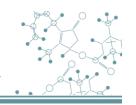
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

In the absence of experimental toxicological data on the product itself, the possible dangers of the product for health have been evaluated on the basis of the properties of the substances contained, according to the criteria established by the reference legislation for classification.



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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

Therefore, consider the concentration of the individual dangerous substances possibly mentioned in sec. 3, to evaluate the toxicological effects deriving from exposure to the product.

Inhalation Possible irritations of respiratory tract (in case of continuous inhalation

narcotic effects caused by propellants may occur).

Swallowing Possible irritations, nausea, vomit, abdominal diseases.

Skin contact Eyes contactPossible irritations.
Possible irritations.

Toxicological data:

Substance identifier	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Quaternary	LD50 Rat: 795 mg/kg	LD50 Rabbit: 1560	N.D.
Ammonium Salts		mg/kg	

-CORROSION / SKIN IRRITATION

Causes severe burns.

-SERIOUS EYE INJURIES / SEVERE EYE IRRITATIONS

Causes severe burns.

- RESPIRATORY OR SKIN SENSITIZATION

N.D.

-MUTAGENICITY OF GERMINAL CELLS

N.D.

-CANCEROGENICITY

N.D.

- REPRODUCTION TOXICITY

N.D.

-STOT SE

N.D.

-STOT RE

N.D.

- RISK OF ASPIRATION

N.D.

-FURTHER INFORMATION

Inhalation Vapors may irritate throat / respiratory tract. A single exposure may cause the following adverse effects: Cough. Difficulty in breathing. Ingestion may cause severe irritation of the mouth, esophagus and gastrointestinal tract. Skin contact Corrosive. Prolonged contact causes severe tissue damage. Eye contact May cause chemical eye burns.

Substance identifier	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Isopropilic Alcohol	LD50 Rat: 4710 mg/kg	LD50 Rabbit: 12800 mg/kg	CL50 Rat: 72,6 mg/l 4h

-CORROSION / SKIN IRRITATION

Not irritating

-SERIOUS EYE INJURIES / SEVERE EYE IRRITATIONS

Causes severe burns.

- RESPIRATORY OR SKIN SENSITIZATION

Not sensitizing

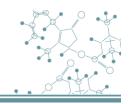
-MUTAGENICITY OF GERMINAL CELLS

Non-mutagenic



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Revision 3.0 of October, 4 2022

-CANCEROGENICITY

Non-carcinogenic

- REPRODUCTION TOXICITY

Non-toxic for reproduction

-STOT SE

May cause drowsiness or sleepiness

-STOT RE

N.D.

- RISK OF ASPIRATION

N.D.

Substance identifier	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Propane	LD50 Rat: N.D.	LD50 Rabbit: 1443 mg/l; 800000 ppm	CL50 Rat: N.D.

-CORROSION / SKIN IRRITATION

Not classified. Contact with liquid may cause freeze-burns

-SERIOUS EYE INJURIES / SEVERE EYE IRRITATIONS

Not classified.

- RESPIRATORY OR SKIN SENSITIZATION

It does not contain significative quantities of sensitizing substances

-MUTAGENICITY OF GERMINAL CELLS

Non-mutagenic

-CANCEROGENICITY

Non-carcinogenic

- REPRODUCTION TOXICITY

Non-toxic for reproduction

-STOT SE

Not classified.

-STOT RE

Not classified.

- RISK OF ASPIRATION

None predictable at room temperature. Contact with liquids, containers and distribution lines that have contained LPG (liquefied petroleum gas) must be avoided in order to prevent cold burns. Lack of oxygen associated with exposure to high concentrations can cause asphyxiation.

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse Health Effects Caused by Endocrine Disrupting Properties:

The mixture does not contain a substance(s) included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by Commission Delegated Regulation (EU) 2017/2100 or by Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1%.

11.2.2. Other information

N.A.

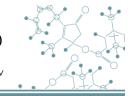
SECTION 12: ECOLOGICAL INFORMATION

The mixture is highly toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. No data on the final product is available. The following data refer to the components listed in section 3.



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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

12.1 – Toxicity

Quaternary Ammonium Salts:

CL50 fish: 1.70 mg/l 96h

CE50 invertebrati: 0.03 mg/l 48h CE50 algae: 0.06 mg/l 96h

12.2 - Persistence and degradability

Quaternary Ammonium Salts: easily biodegradable

Isopropilic Alcohol: rapidly biodegradable

Propane: biodegradable

12.3 - Bioaccumulative potential

Isopropilic Alcohol: rep coeff. Oct/water = 0.05

Propane: Log Pow 1,09 - 2,8

12.4 – Mobility in soil

Quaternary Ammonium Salts: soluble in water

Propane: The product is very volatile. The test methods for this endpoint are not applicable to UVCB

substances.

12.5 – Results of PBT and vPvB assessment

No further information available.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine-disrupting properties:

The mixture does not contain a substance(s) included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by Commission Delegated Regulation (EU) 2017/2100 or by Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1%.

12.7 - Other adverse effects

N.A.

SECTION 13: DISPOSAL CONSIDERATION

13.1 – Waste treatment methods

The waste management methods must be assessed on a case-by-case basis, in relation to the composition of the waste itself, in the light of the provisions of the Community and national legislation in force. For handling and measures in the event of accidental dispersion of the waste, the indications provided in points 6 and 7 generally apply; however, specific precautions and actions must be evaluated in relation to the composition of the waste.

Disposal via sewage outlet is not permitted.

General considerations: operate according to local and national provisions in force. The containers, even if completely emptied, must not be dispersed in the environment. If they contain residues they must be classified, stored and sent to a suitable treatment plant. For non-professional use, the completely empty container can be disposed of with domestic waste.

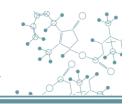
SECTION 14: TRANSPORT INFORMATION

14.1 – UN number or ID number

1950

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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

14.2 – UN proper shipping name **AEROSOL Flammable**

14.3 – Transport hazard class(es)

14.4 - Packing group

14.5 – Environmental hazards

Marine pollutant - no

14.6 – Special precautions for user

N.A.

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: REGULATORY INFORMATION

□ Regulation (EU) 618/2012 (3rd ATP CLP)

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006: none.

Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors: not applicable

Substances in Candidate List (Art. 59 REACH): none.

Substances subject to authorization (Annex XIV REACH): none

Substances subject to export notification obligation Regulation (EU) 649/2012: none

Substances subject to the Rotterdam Convention: none

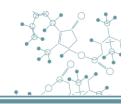
Substances subject to the Stockholm Convention: none

Reference legislation:	The indications provided by the following European legislation are
	complied with:

Regulation (EC) 1272/2008 of the European Parliament (CLP);
$\ \square$ Directive 98/24/EC (protection of the health and safety of workers against the risks from chemical
agents) implemented by Legislative Decree 81/2008;
□ regulation (EC) 1907/2006 (REACH);
□ Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP);
Regulation (EC) 453/2010 of the European Parliament;
□ Database on substances GESTIS – IFA (Institute für Arbeitsschutz der Deutschen Gesetzlichen
Unfalversicherung).
□ Regulation (EC) 830/2015 of the European Parliament;
□ Regulation (EU) 1179/2016 (9th ATP CLP);
☐ Biocidal Products Committee (BPC) opinion June 2016 on the active substance;
☐ The E-Pesticide Manual Version 2.1 (2001)
□ Directive 2006/8/EC
□ Regulation 1907/2006/EC and subsequent amendments
□ Regulation (EC) 1272/2008 and subsequent amendments
□ Regulation (EU) 528/2012
□ Regulation (EC) 790/2009 (1st ATP CLP)
Regulation (EU) 286/2011 (2nd ATP CLP)

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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

Regulation (EU) 48//2013 (4th ATP CLP)
□ Regulation (EU) 944/2013 (5th ATP CLP)
□ Regulation (EU) 605/2014 (6th ATP CLP)
□ Regulation (EU) 1221/2015 (7th ATP CLP)
□ Regulation (EU) 918/2016 (8th ATP CLP)
□ Regulation (EU) 1179/2016 (9th ATP CLP)
□ Regulation (EU) 776/2017 (10th ATP CLP)
□ Regulation (EU) 2018/669 (11th ATP CLP)
□ Regulation (EU) 2018/521 (12th ATP CLP)
□ Regulation (EU) 2018/1480 (13th ATP CLP)
□ Regulation (EU) 2020/217 (14th ATP CLP)
□ Regulation (EU) 2020/1182 (15th ATP CLP)
□ Directive 2012/18/EU (Seveso III)
□ Regulation (EU) 521/2019
□ Regulation (EU) 878/2020
□ Directive 2012/18/EU (Seveso III)
□ Regulation (EU) 521/2019
□ Regulation (EU) 2021/643 (16th ATP CLP)
□ Regulation (EU) 2021/849 (17th ATP CLP)
□ Correction of annexes II and VI (TiO2)
□ Regulation (EU) 2022/692 (18th ATP CLP)

15.2 - Chemical safety assessment

A chemical safety assessment for the product has been not elaborated.

SECTION 16: OTHER INFORMATION

General considerations: The information provided on this safety data sheet corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. Unless otherwise stated, it applies to the product as such and conforming to the specifications. In case of combinations or mixtures, make sure that no new hazards can arise. However, it is the user's responsibility to ensure the suitability and completeness of the information in relation to the particular use to be made of it. In no case does it exempt the user of the product from complying with all the legislative, administrative and regulatory provisions relating to the product, hygiene, worker safety and environmental protection. For further information regarding the mixture, consult the label affixed to the package.

Notes (section 8):

TLV-TWA (Threshold Limit Value –Time Weighted Average): limit values weighted in 8 hours. TLV-STEL (Threshold Limit Value – Short Time Exposure Limit).

ACGIH (American Conference of Governmental Industries Hygienists).

Hazard indication text (H) mentioned on sheet section 2-3

Acute Tox. 1: acute toxicity, Category 1 Acute Tox. 4: acute toxicity 4, Category 4 aspiration hazard, Category 1 Asp. Tox.1: Aquatic Acute 1: aquatic acute, Category 1 Aquatic Chron. 2: aquatic chronic, Category 1 Flamm. Gas 1: flammable gas, Category 1 flammable liquids, Category 2 Flam. Liq. 2: Flamm. Liquid 3: flammable liquids, Category 3

Press. Gas: gas under pressure Eye Irrit. 2: eyes irritant, Category 2



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AIR CONTROL SANITIZER

Revision 3.0 of October, 4 2022

Skin Corr. 1B: skin corrosion, Category 1
Skin Sens. 1: skin sens, Category 1
Skin Irrit. 2: skin irritant, Category 2
STOT SE 3: narcotic effects, Category 3

H220 – Highly flammable gas

H225 – Highly flammable liquid and vapour

H226 – Flammable liquid and vapour.

H280 – Contains gas under pressure; may explode if heated.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways

H312 – Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H400 - Very toxic to aquatic life

H411 –Toxic to aquatic life with long lasting effects

Modify sections: 1, 2, 3, 8, 9, 11, 12, 13, 14, 15, 16 This sheet cancels and replaces all previous versions.