

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 1 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

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

1.1. Product identifier

Code: 54245001
Product name: ELETTRONICA
UFI: F5R0-001P-J00N-PJN1

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

Intended use: CONTACT CLEANER

Identified Uses	Industrial	Professional	Consumer
GENERAL USE	-	-	PC: 9a.
INDUSTRIAL USE	AC: 2. PC: 14.	AC: 2. PC: 14.	-

Uses advised against: This product is not recommended for all those uses not specifically identified on the label.

1.3. Details of the supplier of the safety data sheet

Name: SARATOGA INT. SFORZA S.P.A.
Full address: Via Edison 76
District and Country: 20090 Trezzano s/Naviglio (MI)
ITALY
tel. 0039. 02 445731
fax 0039. 02 4452742

e-mail address of the competent person responsible for the Safety Data Sheet: trading@saratogasforza.com

1.4. Emergency telephone number

For urgent inquiries refer to:
CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24)
CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24)
CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24)
CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24)
CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24)
CAV - Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 7947819 (h24)
CAV - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24444 (h24)
CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)
CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300 (h24)
CAV - Azienda Ospedaliera Integrata Verona - Verona - Tel. +39 800 011858 (h24)

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 (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 2 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

Hazard classification and indication:

Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	It may cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101	If consulting a doctor keep a layout the product container or label.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other source of power on.
P251	Pressurized container: not pierce or burn, even after use.
P261	Avoid breathing aerosol.
P264	Wash hand thoroughly after handling.
P271	Use only outdoors or in a well-ventilated place.
P273	Avoid release to the environment
P280	Wear protective gloves. Protect your eyes and face.
P312	Contact a CENTRE ANTIPOISONS or a doctor if you feel unwell.
P405	Keep under lock and key.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents and the container in authorized collection centers.

In insufficiently ventilated environments, the formation of explosive mixtures is possible.

Contains: Naphtha (petroleum), hydrotreated light fraction.
Isopropyl alcohol

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 3 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
propan-2-ol		
CAS 67-63-0	$30 \leq x < 50$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
INDEX 603-117-00-0		
REACH Reg. 01-2119457558-25		
BUTANE		
CAS 106-97-8	$15 \leq x < 30$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 203-448-7		
INDEX 601-004-00-0		
REACH Reg. 01-2119474691-32-xxxx		
PROPANE		
CAS 74-98-6	$5 \leq x < 15$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
INDEX 601-003-00-5		
REACH Reg. 01-2119486944-21-xxxx		
Naphtha (petroleum), hydrotreated light		
CAS 64742-49-0	$10 \leq x < 20$	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: P
EC 265-151-9		
INDEX 649-328-00-1		
REACH Reg. 01-2119475515-33		
ethanol		
CAS 64-17-5	$1 \leq x < 5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
REACH Reg. 01-2119457610-43		
Isobutane		
CAS 75-28-5	$1 \leq x < 5$	Flam. Gas 1A H220, Classification note according to Annex VI to the CLP Regulation: C
EC 200-857-2		
INDEX 601-004-00-0		

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 4 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

REACH Reg. 01-2119485395-27-
xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 40,30 %

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

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).

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 5 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. 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. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany):
2B

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 6 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

ethanol

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg/d
Normal value for marine water sediment	2,9	mg/kg/d
Normal value for water, intermittent release	2,75	mg/l
Normal value for the terrestrial compartment	0,63	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				87 mg/kg bw/d				
Inhalation	950 mg/m3			114 mg/m3	1900 mg/m3		1900	950 mg/m3
Skin				206 mg/kg bw/d				343 mg/kg bw/d

Naphtha (petroleum), hydrotreated light

Predicted no-effect concentration - PNEC

Normal value in fresh water	VND
Normal value in marine water	VND
Normal value for fresh water sediment	VND
Normal value for marine water sediment	VND
Normal value for water, intermittent release	VND
Normal value of STP microorganisms	VND
Normal value for the food chain (secondary poisoning)	NPI
Normal value for the terrestrial compartment	NPI
Normal value for the atmosphere	VND

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND		VND					149 mg/kg bw/d
Inhalation	VND		VND					449 mg/m3
Skin	VND		VND					149 mg/kg bw/d

propan-2-ol

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
		mg/m3	ppm	
OEL	EU		200	400

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 7 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

Predicted no-effect concentration - PNEC		
Normal value in fresh water	1409	mg/l
Normal value in marine water	1409	mg/l
Normal value for fresh water sediment	552	mg/kg
Normal value for marine water sediment	552	mg/kg
Normal value for water, intermittent release	140,9	mg/l
Normal value of STP microorganisms	2251	mg/l
Normal value for the food chain (secondary poisoning)	160	mg/kg
Normal value for the terrestrial compartment	28	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				26 mg/kg bw/d				
Inhalation				89 mg/m3				500 mg/m3
Skin				319 mg/kg bw/d				888 mg/kg bw/d

BUTANE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
VLA	ESP		1000			Gases
VLEP	FRA	1900	800			
TLV	GRC	2350	1000			
WEL	GBR	1450	600	1810	750	
WEL	GBR		4			RESP
TLV-ACGIH					1000	

PROPANE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
VLA	ESP		1000			
TLV	GRC	1800	1000			

Predicted no-effect concentration - PNEC	
Normal value in fresh water	NEA
Normal value in marine water	NEA
Normal value for fresh water sediment	NEA
Normal value for marine water sediment	NEA
Normal value for water, intermittent release	NEA

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 8 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

Normal value of STP microorganisms	NEA
Normal value for the food chain (secondary poisoning)	NEA
Normal value for the terrestrial compartment	NEA
Normal value for the atmosphere	VND

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI
Inhalation	VND	VND	VND	VND	VND	VND	VND	VND
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

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

None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
------------	-------	-------------

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 9 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

Appearance	aerosol	
Colour	colourless	
Odour	pungent	
Melting point / freezing point	< -50 °C	
Initial boiling point	Not available	Reason for missing data:Aerosol Reason for missing data:Aerosol
Flammability	flammable gas	
Lower explosive limit	0,8 % (v/v)	
Upper explosive limit	8,9 % (v/v)	
Flash point	Not available	Reason for missing data:Aerosol
Auto-ignition temperature	> 270 °C	
Decomposition temperature	Not available	Reason for missing data: not self-reactive mixture
pH	Not applicable	Reason for missing data:substance/mixture is non-soluble (in water)
Kinematic viscosity	< 9cSt a 15°C	
Dynamic viscosity	Not available	Reason for missing data:Non Definita
Solubility	soluble in organic solvents	
Partition coefficient: n-octanol/water	Not available	Reason for missing data: the product is a mixture
Vapour pressure	3750 hPa	
Density and/or relative density	0,65 kg/l	
Relative vapour density	< 1 (Aria = 1)	
Particle characteristics	Not applicable	Reason for missing data: the mixture is not a solid

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Aerosol

% flammable components Remark:> 50%

9.2.2. Other safety characteristics

Evaporation rate	Not determined
Total solids (250°C / 482°F)	999,00 %
VOC (Directive 2010/75/EU)	100,00 % - 650,00 g/litre
VOC (volatile carbon)	93,63 % - 608,61 g/litre
Explosive properties	not applicable
Oxidising properties	not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 10 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid overheating.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 11 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

Naphtha (petroleum), hydrotreated light

LD50 (Oral):	> 5840 mg/kg Ratto
LD50 (Dermal):	> 2920 mg/kg Ratto
LC50 (Inhalation vapours):	> 23,3 mg/l/4h Ratto

propan-2-ol

LD50 (Oral):	> 5840 mg/kg Ratto
LD50 (Dermal):	> 16,4 mg/kg Coniglio

PROPANE

LC50 (Inhalation gas):	> 1237 ppm/2h
------------------------	---------------

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 12 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

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

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 13 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

ethanol

LC50 - for Fish	> 14,2 mg/l/96h Fonte ECHA
EC50 - for Crustacea	> 10 mg/l/48h Fonte ECHA
EC50 - for Algae / Aquatic Plants	> 275 mg/l/72h Fonte ECHA

Naphtha (petroleum), hydrotreated light

LC50 - for Fish	> 13,4 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 3 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h Raphidocelis
Chronic NOEC for Fish	> 1,534 mg/l (28 giorni)
Chronic NOEC for Crustacea	> 1 mg/l Daphnia magna (21 giorni)

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 14 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

propan-2-ol

LC50 - for Fish

> 9640 mg/l/96h *Pimephales promelas*

EC50 - for Algae / Aquatic Plants

> 1800 mg/l/72h *Scenedesmus quadricauda*

PROPANE

LC50 - for Fish

> 147 mg/l/96h

EC50 - for Algae / Aquatic Plants

> 19,37 mg/l/72h

12.2. Persistence and degradability

propan-2-ol

Rapidly degradable

BUTANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

PROPANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

BUTANE

Partition coefficient: n-octanol/water

1,09

PROPANE

Partition coefficient: n-octanol/water

1,09

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 $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 15 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, 1950
IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS
IMDG: AEROSOLS
IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



14.4. Packing group

ADR / RID, IMDG, -
IATA:

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --

Limited
Quantities: 1
L

Tunnel
restriction
code: (D)

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 16 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

IMDG:	Special provision: - EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special provision:	A145, A167, A802	

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P3a

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

Product
Point 40

Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 17 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

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.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

BUTANE

PROPANE

SECTION 16. Other information

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

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Press. Gas (Liq.)	Liquefied gas
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Use descriptor system:

AC	2	Machinery, mechanical appliances, electrical/electronic articles
-----------	----------	--

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA

cod. 54245001

Revision: 16 / IT

Page 18 of 19

Date of print: 07/04/2022

Date of review: 16/12/2021

PC	14	Metal surface treatment products
PC	9a	Coatings and paints, thinners, paint removers

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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 (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) 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
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 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
 - IFA GESTIS website

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ELETTRONICA
cod. 54245001
Revision: 16 / IT

Page 19 of 19

Date of print: 07/04/2022
Date of review: 16/12/2021

- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

From 01 to 16.