

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

NAME OF THE PRODUCT E100 Contact cleaner spray 400 ml
CODE 110002

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation n°1272/2008 (CLP)



GHS02 Flame
Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS09 Environment
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS07



GHS09

Signal word: Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
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 ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501	Dispose of contents/container in accordance with local/ regional / national / international regulations.

Additional information:

Build-up of explosive mixtures possible without sufficient ventilation.

Hazard-determining components of labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane propan-2-ol

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.






vPvB: Not applicable.





3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Description:

Cleansing agent.

CAS: 92128-66-0 EC Number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  Flam. Liq. 2, H225  Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336  Aquatic Chronic 2, H411	50-<75%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	Ethanol  Flam. Liq. 2, H225	10-<25%
CAS : 106-97-8 EINECS : 203-448-7 Reg.nr. : 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8))  Flam. Gas 1, H220 Press. Gas (Comp.), H280	2,5-<10%

CAS : 74-98-6 EINECS : 200-827-9 Reg.nr. : 01-2119486944-21	Propane  Flam. Gas 1, H220 Press. Gas (Comp.), H280	2,5-<10%
CAS : 75-28-5 EINECS : 200-857-2 Reg.nr. : 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))  Flam. Gas 1, H220 Press. Gas (Comp.), H280	1-<2,5%
CAS : 67-63-0 EINECS : 200-661-7 Reg.nr. : 01-2119457558-25	propan-2-ol  Flam. Liq. 2, H225  Eye Irrit. 2, H319 STOT SE 3, H336	0,1-<1%

Ingredients

According to detergents guideline 648/2004/EC

aliphatic hydrocarbons

≥30%

Additional information:

No data available.

4. FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Do not induce vomiting and seek medical attention immediately.

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

No further relevant information available.

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

No further relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

For safety reasons unsuitable extinguishing agents:

Water with full jet.

5.2. Special hazards caused by the substance, its products of combustion or resulting gases

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment:

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Fire-and explosion prevention

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for a safety storage, including incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store in a cool place.

Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility

Observe official regulations on storing packagings with pressurized containers.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles.

Protect from heat and direct sunlight.

7.3. Specific end uses

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:

No further data; see item 7.

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 64-17-5 ethanol	WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
CAS: 106-97-8 butane (containing < 0.1% butadiene (203-450-8))	WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
CAS: 74-98-6 propane	WEL	Long-term value: 1800 mg/m ³
CAS: 75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8))	WEL	Short-term value: 2400 mg/m ³ Long-term value: 1900 mg/m ³
CAS: 67-63-0 Propan-2-ol	WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm

DNEL

DNEL (Worker)

Identification		Short term		Long term	
		Systemic	Local	Systemic	Local
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS : 92128-66-0 CE :	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	773 mg/kg bw/Day	Not applicable
	Inhalation	Not applicable	Not applicable	2035 mg/m ³	Not applicable

DNEL (Consumer)

Identification		Short term		Long term	
		Systemic	Local	Systemic	Local
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS : 92128-66-0 CE :	Oral	Not applicable	Not applicable	699 mg/kg bw/Day	Not applicable
	Dermal	Not applicable	Not applicable	699 mg/kg bw/day	Not applicable
	Inhalation	Not applicable	Not applicable	608 mg/m ³	Not applicable

Additional information:

The lists valid during the making were used as basis.

8.2. Exposure control

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Do not inhale gases/fumes/aerosols.
 Avoid contact with skin.
 Avoid contact with the eyes and skin.



Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
 Filter A2/P2



Eye protection:

Safety glasses
 Tightly sealed goggles



Protection of hands :

Wear gloves for the protection against chemicals according to EN 374
 Protective gloves
 Solvent resistant gloves
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: ³ 0.5 mm

• Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available.

In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



Body protection:

Use protective suit. (EN-13034/6)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	
Form	Liquid
Colour	According to product specification
Odour	Characteristic
Odour threshold	Not determined
pH value	Not determined
Change in condition	
Melting point/melting range	Not determined
Initial oiling point/boiling range	-44°C
Flash point	-97°C
Flammability (solid, gas)	Not applicable
Auto-ignition temperature:	This product is no self-igniting.
Explosive properties	This product is no explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits	
Lower explosive limit	0,8 Vol. %
Upper explosive limit	15 Vol%
Vapour pressure at 20°C	246 hPa
Density at 20°C	0,69 g/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility/miscibility in water at 20°C	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
Solvent content	
Organic solvents	100,0%

9.2. Additional information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition/ conditions to be avoided:

No decomposition if used according to specifications.

10.3. Possibility of dangerous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Dangerous decomposition products

No dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0	Oral	LD50	>5840 mg/kg (rat)
	Dermal	LD50	>2920 mg/kg (Rabbit)
	Inhalation	LD50/4 h	>25 mg/l (rat)

Primary irritant effect

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenic, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard:

May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Identification	Toxicity		Gender
	NOELR (72h)	3 mg/l	
Hydrocarbons, C6- C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0	EL50 (48h)	3 mg/l	(Pseudokirchneriella subcapitata)
	EL50 (72h)	30-100 mg/l	(Dm)
	LL50 (96h)	11,4 mg/l	(Pseudokirchneriella subcapitata)
	NOEC (21 days)	0,17 mg/l	(Oncorhynchus mykiss (96h))
	LOEC (21 days)	0,32 mg/l	(Dm)
			(Dm)

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulation potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Ecotoxic effects

Notes:

Toxic for fish.

Additional environmental directions

General directions:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue







HP3 Flammable
HP4 Irritant - skin irritation and eye damage
HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14 Ecotoxic

13.2. Uncleansed packages

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN Number · ADR, ADN, IMDG, IATA	UN1950
14.2 UN proper shipping name ADR, ADN IMDG IATA	UN1950 AÉROSOLS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
14.3 Transport hazard class(es) ADR	
 	
Class Label	2 5F Gaz 2.1
ADN Class ADN/R	2 5F
IMDG	
 	
Class Label	2.1 2.1
IATA	
 	
Class Label	2.1 2.1
14.4 Packing group ADR, IMDG, IATA	Void.
14.5 Environmental hazards:	Product contains environmentally hazardous substances:
Marine Pollutant:	No Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	
EMS Number	F-D, S-U

Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
ADR Limited quantities (LQ) Excepted quantities (EQ) • Transport category • Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity 2 D
IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous for the aquatic environment

Qualifying quantity (tonnes) for the application of lower-tier requirements

150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

REGULATION (CE) n°1907/2006 ANNEX XVII :

Conditions of restriction :

28,29

National regulations

Class	Share in %
NK	100

VOC-CH:

100,00%

VOC-EU:

690,0 g/l

Danish MAL code:

5-3

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1 Relevant phrases

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

16.2 Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organization
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
 DNEL: Derived No-Effect Level (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1: Flammable gases – Category 1
 Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products.