

Trade name : DECA-FLUX PINCEL DECAGEL
Revision date : 29/4/2016
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product trade name	: DECA-FLUX PINCEL DECAGEL
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Identified Uses	: Pickling and deoxidizer for cupric welding metals.
Uses Advised Against	: Uses other than those recommended.
1.3. Details of the supplier of the safety data sheet	
Address	: C/ La Màquina, 37 Pol. Ind Les Massotes 08850 GAVÀ (Barcelona)- SPAIN
Telephone Number	: (+34) 936 380 003
E-Mail of the SDS responsible person	: decap@decap.com
1.4. Emergency telephone number	
	: (+34) 936 380 003 (Spanish) (Only available during office hours)

SECTION 2: Hazards identification




2.1. Classification of the substance or mixture

CLP Classification Table

Regulation (EC) No 1272/2008 (CLP)	
Hazard Classes/Hazard Categories	Hazard Statement
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Eye Dam. 1 Skin Corr. 1B STOT SE 3	H302: Harmful if swallowed. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H318: Causes serious eye damage. H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation.

2.2. Label elements

CLP Labelling Table

Regulation (EC) No 1272/2008 (CLP)		
Pictogram and Signal Word	Hazard Statements	Precautionary Statements
Danger		
   GHS05 GHS07 GHS09	H302 H314 H335 H410	P102 P270 P273 P280 P310 P501 P305+P351+P338

Additional labeling

Contains:
ethanediol, ethylene glycol
ammonium chloride
zinc chloride
Alcohols, C16-18, ethoxylate

2.3. Other hazards

Compliance with PBT/vPvB criteria : The product does not contain PBT/vPvB substances.

Other criteria

In normal use conditions and in its original form, the product has no other adverse effect on health and the environment.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Chemical Name	CAS-No.	EC-No.	Index No.	REACH Registration No.	Content (% w/w)	CLP Classification**
[1] Ethanediol, ethylene glycol	107-21-1	203-473-3	603-027-00-1	01-2119456816-28-XXXX	10 - 25	Acute Tox. 4*; H302
[1] Ammonium chloride	12125-02-9	235-186-4	017-014-00-8	01-2119487950-27	2.5 - 10	Acute Tox. 4*; H302 - Eye Irrit. 2; H319
[1] Zinc chloride	7646-85-7	231-592-0	030-003-00-2	01-2119472431-44-xxxx	20 - 50	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Corr. 1B; H314
Alcohols, C16-18, ethoxylated	68439-49-6	500-212-8	-	-	10 - 25	Acute Tox. 4; H302 Eye Dam. 1; H318

[1] Substance for which there is a Community workplace exposure limit.

* Refer to Regulation (EC) No. 1272 / 2008, Annex VI, Section 1.2.

** Full texts of hazard statements (H phrases): see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures	:
In Case of Inhalation	: Take the victim to fresh air, keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Do not administer anything by mouth. If unconscious, place in recovery position and seek medical help.
In Case of Skin Contact	: Remove contaminated clothing. Wash skin thoroughly with soap and water or an appropriate skin cleanser. NEVER use solvents or diluents.
In Case of Eye Contact	: In case of wearing contact lenses, remove them. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
In Case of Ingestion	: If accidentally swallowed, seek immediate medical attention. Keep at rest. NEVER induce vomiting.
Protection of the person providing first aid	: Use appropriate protective equipment when dealing with a contaminated person.
4.2. Most important symptoms and effects, both acute and delayed	: Corrosive product, contact with eyes or skin may cause burns, ingestion or inhalation may cause internal damage in the event of immediate medical attention is required.
4.3. Indication of any immediate medical attention and special treatment needed	: In case of doubt, or when symptoms of discomfort persist, seek medical attention. Never give anything by mouth to people who are unconscious.

SECTION 5: Firefighting measures

5.1. Extinguishing media	:
Appropriate Extinguishing Media	: Use appropriate extinguishing measures to local circumstances and surroundings. CO2, powder, water, alcohol resistant foam.
Unsuitable Extinguishing Media	: Do not use for extinguishing direct water stream.
5.2. Special hazards arising from the substance or mixture	: Fire can produce a dense black smoke. As a result of the thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to health.
5.3. Advice for firefighters	: Cool with water the tanks, cisterns or containers close to the heat source or fire. Take into account the wind direction. Prevent products used in fighting the fire from going into drains, sewers or waterways. Depending on magnitude of fire, use protective suits against the heat, independent respiratory equipment, gloves, goggles or face masks and boots may be necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	:
For Non-Emergency Personnel	: For exposure controls and personal protection measures, see section 8.
For emergency personnel	: Provide personnel with appropriate protective equipment if the material concentration is too high. Keep away unauthorized personnel.
6.2. Environmental precautions	: Product Dangerous for the environment, for large spills or if the product contaminates lakes, rivers or drains, inform the competent authorities according to local legislation. Avoid contamination of drains, surface or ground water, and soil.
6.3. Methods and material for containment and cleaning up	: Collect spillage with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth ...). Pour the product and the absorbent in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. Add the same decontaminant to the

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remnants and let stand for several days until no further reaction in non-sealed container.
6.4. Reference to other sections : For further information, please see sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product does not require special handling, the following general measures are recommended:
For personal protection see Section 8. Never use pressure to empty the containers, they are not resistant to pressure.

In the area of application it must be forbidden to smoke, eat and drink.
Comply with legislation on health and safety at work.
Always keep in containers of same to the original material.

7.2. Conditions for safe storage, including any incompatibilities

Store according to local legislation. Observe the indications of the label. Store between 5 and 35 ° C in a dry, well-ventilated place, away from sources of heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising agents and strongly acid or alkaline materials. No Smoking. Prevent entry to unauthorized persons. Once the containers are open, they must be carefully resealed and kept upright to prevent leakage.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18 / EU (Seveso III):

Code	Description	Threshold quantity (tons) for the purposes of applying the	
		lower level requirements	higher-level requirements
E1	HAZARDS FOR THE ENVIRONMENT - Hazardous to the aquatic environment in the categories chronic 1 or acute 1	100	200

7.3. Specific end use(s) : Pickling and deoxidizer for cupric welding metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational limits

Identification	Country	Professional Exposure Limit Values	
		Eight hours	Short term
Ammonium chloride CAS : 12125-02-9	Spain [1]	Eight hours	10 mg/m ³
		Short term	20 mg/m ³
	UK	Eight hours	10 mg/m ³
		Short term	20 mg/m ³
Ethanediol, etilenglicol CAS : 107-21-1	Spain [1]	Eight hours	20ppm / 52 mg/m ³
		Short term	40ppm / 104 mg/m ³
	EU [2]	Eight hours	20ppm (skin) / 52 mg/m ³ (skin)
		Short term	40ppm (skin)/104 mg/m ³ (skin)
Zinc chloride CAS : 7646-85-7	Spain [1]	Eight hours	1 mg/m ³
		Short term	2 mg/m ³
	UK	Eight hours	1 mg/m ³
		Short term	2 mg/m ³

[1] According to the list of Professional Exposure Limit Values adopted by the National Institute of Safety and Health at Work (INSHT) 2014.

[2] Both Binding Occupational exposure, According Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) ADOPTED by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

DNELs and PNECs

Ammonium Chloride (CAS 12125-02-9):

DNEL								
Exposure Route	Workers				General Population			
	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects
Oral	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	11.4 mg/Kg bw/day
Inhalation	Not determined	Not determined	Not determined	35 mg/m ³	Not determined	Not determined	Not determined	9.9 mg/Kg bw/day
Dermal	Not determined	Not determined	Not determined	190 mg/Kg bw/day	Not determined	Not determined	Not determined	114 mg/Kg bw/day
PNEC								

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Environmental protection target	PNEC value
Freshwater	1.2 mg/L
Freshwater sediment	Not determined
Marine water	11.2 mg/L
Marine water sediment	Not determined
Sewage treatment plant	16.2 mg/L (Extrapolation method: evaluation factor)
Soil	0.163 mg/kg soil dw
Air	Not determined

Ethanediol, etilenglicol (CAS : 107-21-1)

DNEL								
Exposure Route	Workers				General Population			
	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects
Oral	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined
Inhalation	Not determined	Not determined	Not determined	33.5 mg/m ³	Not determined	Not determined	Not determined	Not determined
Dermal	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined
PNEC								
Not determined								

Zinc chloride (CAS : 7646-85-7)

DNEL								
Exposure Route	Workers				General Population			
	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects	Acute - local effects	Acute - systemic effects	Long-term - local effects	Long-term - systemic effects
Oral	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined
Inhalation	Not determined	Not determined	Not determined	1 mg/m ³	Not determined	Not determined	Not determined	Not determined
Dermal	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined	Not determined
PNEC								
Not determined								

8.2. Exposure controls

Appropriate Engineering Controls

: Provide adequate ventilation, which can be achieved by using good local exhaust ventilation and good general extraction.
 Keep the area clean and dry work. Do not leave the container open. Avoid dust formation.

Individual protection measures

Eye/ Face Protection

: PPE: Safety glasses with integrated mount
Features: Marked 'EC' Category II. Comprehensive eye shield mount for protection against dust, fumes, mists and vapors.
CEN standards: EN 165, EN 166, EN 167, EN 168
Maintenance: Visibility through lenses should be ideal for which these elements should be cleaned daily, guards should be disinfected periodically following the manufacturer's instructions.
Notes: Always replace that breaks, cracks or deformation are observed and when contamination outside can lower your resistance.



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Hands protection	: <u>PPE</u> : disposable gloves no protection against chemicals <u>Features</u> : Marked 'EC' Category III. You should review the list of chemicals against which the glove has been tested. <u>CEN standards</u> : EN 374-1, EN 374-2, EN 374-3, EN 420 <u>Maintenance</u> : a schedule for regular replacement of the gloves to ensure they are changed before being permeated by contaminants should be established. The use of contaminated gloves may be more dangerous than the lack of use, because the contaminant can accumulate in the material leave component of the glove. <u>Notes</u> : Always replace that breaks, cracks or deformation are observed and when contamination outside can lower your resistance. Material: PVC (Polyvinyl chloride) Breakthrough time (min.)> 480 Material Thickness (mm): 0.35
Skin Protection	: <u>PPE</u> : Protective clothing against chemicals. <u>Features</u> : Marked 'EC' Category III. Clothing should have a good fit. It should set the level of protection based on a test parameter called " time step " (BT. Breakthrough Time) which indicates the time the chemical takes to pass through the material. <u>CEN standards</u> : EN 464, EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034. <u>Maintenance</u> : Follow your washing and maintenance instructions provided by the manufacturer to guarantee uniform protection. <u>Notes</u> : The design of protective clothing should facilitate proper positioning and retention without displacement, during the period of intended use, taking the account environmental factors, along with the movements and postures that the user can take during your activity. <u>PPE</u> : Safety footwear against chemicals and antistatic properties <u>Features</u> : Marked 'EC' Category III. You should review the list of chemicals against which is resistant footwear. <u>CEN standards</u> : EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345. <u>Maintenance</u> : For proper maintenance of this type of safety footwear is essential to observe the instructions specified by the manufacturer. The shoes should be replaced at any sign of deterioration. <u>Notes</u> : The footwear should be cleaned regularly and dry when wet but not placed too close to a heat source to avoid sudden temperature change.
Respiratory Protection	: If the recommended technical measures are met you do not need any personal protective equipment.
Environmental Exposure Controls	: Not determined.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	: White paste
Odour	: Characteristic
Odour threshold	: Not determined.
Properties	
pH	: 4-5
Melting Point	: <0°C
Boiling Point	: >100°C
Flash Point	: >155°C
Evaporation Rate	: Not determined/Not applicable
Flammability	: Not determined/Not applicable
Upper/lower flammability or explosive limits	: Not determined/Not applicable
Vapour Pressure	: Not determined/Not applicable
Vapour Density	: Not determined/Not applicable
Relative Density	: 1.10 g/cm ³
Bulk Density	: Not determined/Not applicable
Solubility	: Water soluble
Partition Coefficient N-Octane/Water	: Not determined/Not applicable
Auto-Ignition Temperature	: Product does not auto-ignite.
Decomposition Temperature	: >350°C
Viscosity	: Not determined/Not applicable
Explosive Properties	: Not determined/Not applicable
Oxidising Properties	: Not determined/Not applicable

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9.2. Other information : COV (p/p): 15 %
COV: 165 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity : The product does not present hazards due to its reactivity.
10.2. Chemical stability : Unstable in contact with:
- Bases
10.3. Possibility of hazardous reactions : No dangerous reaction known under normal conditions of use.
10.4. Conditions to avoid : Avoid contact with bases.
10.5. Incompatible materials : Keep away from bases.
10.6. Hazardous decomposition products : Depending on the conditions of use, the following products can be generated:
- Corrosive vapors or gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects :

Hazard Class/Effect		Results/Conclusions
Acute Toxicity	Inhalation	Inconclusive data for classification.
	Ingestion	Harmful if swallowed.
	Dermal	Inconclusive data for classification.
Skin Corrosion/Irritation		It causes severe skin burns.
Serious Eye Damage/Irritation		Causes serious eye damage
Respiratory or skin sensitization		Inconclusive data for classification.
Germ Cell Mutagenicity		Inconclusive data for classification.
Carcinogenicity		Inconclusive data for classification.
Reproductive Toxicity		Inconclusive data for classification.
STOT-Single Exposure		Inconclusive data for classification.
STOT-Repeated Exposure		Inconclusive data for classification.
Aspiration hazard		Inconclusive data for classification.

SECTION 12: Ecological information

12.1. Toxicity : There is no information on the toxicity of the substances present.
12.2. Persistence and degradability : No information is available about persistence and degradability of the product.
12.3. Bioaccumulative potential : Information on the bioaccumulation of the substances present:
Ethanediol, ethylene glycol (CAS: 107-21-1):
LogPow: -1.36
Bioaccumulation Level: Very Low
12.4. Mobility in soil : No information is available on the mobility in soil.
Do not allow the product to go into sewers or waterways.
Prevent penetration into the ground.
12.5. Results of PBT and vPvB assessment : The product does not contain PBT/vPvB substances.

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12.6. Other adverse effects : No information is available about other adverse effects on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate Methods of Waste Treatment of Substance : Discharge into sewers or waterways is not allowed. Waste and empty containers must be handled and disposed of in accordance with local / national regulations.
Follow the provisions of Directive 2008/98 / EC for waste management.

Appropriate Methods of Waste Treatment of Packaging : Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN Number : UN1760
14.2 UN Proper Shipping Name : Corrosive liquid, N.O.S. (CONTAINS ZINC CHLORIDE)
14.3 Transport hazard class(es) : 8
14.4 Packaging group : III
14.5 Environmental hazard : Marine pollutant
Hazard Number: 80
14.6 Special precautions for user : ADR limited quantities: 5L
Transport by ship, fem - Emergency sheets (F - Fire, S - Spills): F-A, S-B
Acting as point 6.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.
14.8. Additional Information : Labels: 8



SECTION 15: Regulatory information

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

EU Regulations

REACH Authorizations : This product does not contain substances that are included in the list of substances of very high concern or Annex XIV of REACH (substances subject to authorization).

REACH use restrictions : This product is not subject to any restrictions Title VIII of the REACH Regulation.

Other EU Regulations : Directive 2012/18 / EU, Annex I (Seveso III): classified as E1

15.2. Chemical safety assessment : A Chemical Safety Assessment has not been carried out for the product.

SECTION 16: Other information

Changes to the Previous Version : The format is set and complies with the REACH Regulation and its amendment, Regulation (EU) 2015/830.

Abbreviations : PBT: Persistent, bioaccumulative and toxic
vPvB: Very persistent and very bioaccumulative
DNEL: Derived no effect level
PNEC: Predicted no effect concentration

Bibliographic references and data sources : Safety Data Sheet of the supplier.
Regulation 1272/2008 (CLP)
Regulation 2015/830 (REACH Annex II amendment)

Methods used for classification of the mixture according to Regulation 1272/2008 (CLP) : Calculation based on the classification of components.

Full texts of Hazard Statements (H) : H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Advice on training for workers : Maintenance personnel and production plant has received information and training on safety instructions in plant and equipment.



DECAP 93, S.L.

SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830 amending
Annex II of Regulation (EC) No. 1907/2006 (REACH)

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NOTES : Information for this SDS, has been carried out with the utmost care and reflects our knowledge in the field, on the date of publication. This information serves as a guidance for safe and proper handling of our product (use, handling, storage, transportation, disposal and disposal) and not be considered a warranty or quality standard. The data only apply to this product and are not valid when used in combination with other materials or other procedures for which it is determined.