

leraeus Sarety uata 5...51 according to 1907/2006/EC, Article 31

Version number 7 Revision: 14.02.2013 Printing date 10.12.2013

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

- · Product identifier
- Trade name: Flux NC 5070
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the preparation Soldering flux
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

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Further information obtainable from:

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2 Hazards identification

- Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

Harmful if swallowed. R22:



Xi; Irritant

Risk of serious damage to eyes.



Xi; Sensitising

May cause sensitisation by skin contact.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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· Classification system:

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The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

- · Hazard pictograms GHS05, GHS07
- · Signal word Danger

· Hazard-determining components of labelling:

2-ethylhexane-1,3-diol Rosin, hydrogenated

Poly(ethylene glycol) butyl ether Amines, coco alkyl, ethoxylated

· Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

· Precautionary statements

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

- · Additional information: Void
- Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 65997-06-0	Rosin, hydrogenated	50-100%
EINECS: 266-041-3	💢 Xi R43	
	♦ Skin Sens. 1, H317	
CAS: 94-96-2	2-ethylhexane-1,3-diol	10-25%
EINECS: 202-377-9	🗙 Xi R41	
	♦ Eye Dam. 1, H318	
CAS: 9004-77-7	Poly(ethylene glycol) butyl ether	10-25%
NLP: 500-012-0	x Xn R20/21/22; x Xi R36	
	① Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319	

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CAS: 61791-14-8	Amines, coco alkyl, ethoxylated	2.5-10%
NLP: 500-152-2	xn R22; xi R38-41 xi R38-	
	♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315	1
CAS: 141-82-2	malonic acid	2.5-10%
EINECS: 205-503-0	xn R22; xi R36	
	① Acute Tox. 4, H302; Eye Irrit. 2, H319	

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

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. Then consult a doctor.
- · After swallowing: Call for a doctor immediately.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

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 disposal information.



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7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · 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.

Avoid contact with the eyes.

- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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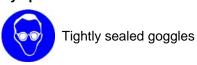


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· Eye protection:



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9 Physical and chemical propert	ies
Information on basic physical and ch General Information	nemical properties
· Appearance: Form:	Pasty
Colour:	Colourless
· Odour:	Solvent-like
· Odour threshold:	Not determined.
· pH-value at 20 °C:	4.8
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 244 °C
· Flash point:	113 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	340 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
Density at 20 °C:	1.02 g/cm ³
Relative density	Not determined.
Vapour densityEvaporation rate	Not determined. Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/w	ater): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
Solids content:	62.4 % (Contd. on pag



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Other information

10 Stability and reactivity

- Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

65997-06-0 Rosin, hydrogenated

Oral LD50 > 2000 mg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.



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13 Disposal considerations

- · Waste treatment methods
- Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

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· UN-Number · ADR, ADN, IMDG, IATA	Void	
 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · ADR, IMDG, IATA	Void	
Environmental hazards:Marine pollutant:	No	
· Special precautions for user · Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	-	

15 Regulatory information

· 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.

· Relevant phrases

H332

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eve irritation

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22	Harmful if swallowed.
R36	Irritating to eyes.

Harmful if inhaled.

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R38 Irritating to skin. (Contd. of page 7)

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

· Department issuing MSDS: Contact Materials Division

Abbreviations and acronyms:

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 Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.