



SAFETY DATA SHEET NESTE CUTTING F 110

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

1.1. Product identifier

Product name NESTE CUTTING F 110
Product number ID 10793
Internal identification 3973

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

Identified uses Working fluid.

1.3. Details of the supplier of the safety data sheet

Supplier

Neste Markkinointi Oy
Keilaranta 21, Espoo, PL 95, FIN-00095 NESTE, FINLAND
Tel. +358 10 45811
lubetec@neste.com

1.4. Emergency telephone number

National emergency telephone number +358-9-471 977, +358-9-4711, Poison Information Centre number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains Tetramethylol acetylenediurea, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements P273 Avoid release to the environment.
P102 Keep out of reach of children.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Alcohols, C16-18 and C18-unsatd., ethoxylated			1 - < 10 %
CAS number: 68920-66-1	EC number: 500-236-9	REACH registration number: 01-2119489407-26-XXXX	
Classification			
Skin Irrit. 2 - H315			
Aquatic Chronic 2 - H411			
Alcohol ethoxilates			1 - < 10 %
CAS number: 68920-66-1	EC number: 500-236-9	M factor (Acute) = 1	
Classification			
Skin Irrit. 2 - H315			
Aquatic Acute 1 - H400			
Aquatic Chronic 3 - H412			
Ethoxylated oleamide			1 - < 10 %
CAS number: 26027-37-2	EC number: 607-851-2		
Classification			
Eye Irrit. 2 - H319			
Distillates (petroleum), hydrotreated light naphthenic			1 - < 10 %
CAS number: 64742-53-6	EC number: 265-156-6	REACH registration number: 01-2119480375-34-XXXX	
Classification			
Asp. Tox. 1 - H304			
Boric acid			< 5,5 % *
CAS number: 10043-35-3	EC number: 233-139-2	REACH registration number: 01-2119486683-25-XXXX	
Classification			
Repr. 1B - H360FD			
Tetramethylol acetylenediurea			1 - < 10 %
CAS number: 5395-50-6	EC number: 226-408-0		
Classification			
Skin Sens. 1 - H317			

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1,2-benzisothiazol-3(2H)-one	0,005 - < 0,05 %
CAS number: 2634-33-5	EC number: 220-120-9
M factor (Acute) = 1	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Ingredient notes * Special concentration limit : CAS 10043-35-3, Boric acid; Repr. 1B - H360FD ≥ 5,5 %.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	If spray/mist has been inhaled, proceed as follows. Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

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

General information	May irritate eyes and skin. The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Nitrous gases (NO _x). Sulphurous gases (SO _x).

5.3. Advice for firefighters

Protective actions during firefighting	Contain and collect extinguishing water. Avoid discharge into drains.
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Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing as protection against splashing or contamination.

For emergency responders Keep unnecessary and unprotected personnel away from the spillage.

6.2. Environmental precautions

Environmental precautions Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Place waste in labelled, sealed containers. Dispose of waste via a licensed waste disposal contractor.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Do not breathe mist. All handling should only take place in well-ventilated areas. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. For personal protection, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Store at temperatures between 5°C and 40°C. Protect from sunlight. Keep containers upright. Keep away from food, drink and animal feeding stuffs. Unsuitable container materials: Zinc.

7.3. Specific end use(s)

Specific end use(s) Not known.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls All handling should only take place in well-ventilated areas. Handle product within a predominantly closed system provided with extract ventilation.

Eye/face protection Tight-fitting safety glasses.

Hand protection Wear protective gloves made of the following material: Nitrile rubber. The selected gloves should have a breakthrough time of at least 4 hours. Change protective gloves regularly.

Other skin and body protection Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus). Combination filter, type A2/P2. Filter must be changed often enough. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%).

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Environmental exposure controls Store in a demarcated banded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	-
pH	pH (diluted solution): 9,3 @ 50 g/l (DIN 51369)
Melting point	-
Initial boiling point and range	-
Flash point	-
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	-
Vapour density	-
Relative density	~ 1,03 @ 20°C (DIN 51757)
Solubility(ies)	Completely soluble in water.
Auto-ignition temperature	-
Decomposition Temperature	-
Viscosity	130 mm ² /s @ 20°C (DIN 51562)
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

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Materials to avoid Oxidising agents. Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Heating may generate the following products: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x). Sulphurous gases (SO_x). Aldehydes. Ketones.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation May be slightly irritating to skin and eyes., Vapours/aerosol spray may irritate the respiratory system., Based on available data the classification criteria are not met., Supplier's information., On basis of test data.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation The product contains a small amount of sensitising substance. Based on available data the classification criteria are not met. Supplier's information. Bridging principle (Dilution).

Germ cell mutagenicity

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Alcohols, C16-18 and C18-unsatd., ethoxylated

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Alcohol ethoxilates

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Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Distillates (petroleum), hydrotreated light naphthenic

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Boric acid

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 2660 - 4100 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 2 mg/l, Inhalation, Rat

Tetramethylol acetylenediurea

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat

1,2-benzisothiazol-3(2H)-one

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 670 mg/kg, Oral, Rabbit

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity

Harmful to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Alcohols, C16-18 and C18-unsatd., ethoxylated

Acute toxicity - aquatic invertebrates EL50, 48 hours: 51 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 100 mg/l, Fish

Alcohol ethoxilates

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M factor (Acute) 1

Boric acidAcute toxicity - aquatic plants EC₁₀, 96 hours: 137 mg/l, Fish**Tetramethylol acetylenediurea**Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 17,8 mg/l, Daphnia magnaAcute toxicity - aquatic plants EC₅₀, 96 hours: 2,02 mg/l, Fish**1,2-benzisothiazol-3(2H)-one****Acute aquatic toxicity**LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0,15 mg/l, Fish**12.2. Persistence and degradability**

Persistence and degradability No data available.

Biodegradation No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not empty into drains. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.

SECTION 14: Transport information

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General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

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UN No. (ADR/RID) -

14.2. UN proper shipping name

Proper shipping name (ADR/RID) -

14.3. Transport hazard class(es)

ADR/RID class -

14.4. Packing group

ADR/RID packing group -

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Authorisations (Title VII Regulation 1907/2006) This product contains a substance that is included in the Candidate List of Substances of Very High Concern (SVHC) (Regulation Nr 1907/2006, REACH): Boric acid (CAS 10043-35-3)

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

Key literature references and sources for data The manufacturer's SDS. 13.3.2017

Revision comments Revised formulation. Updated, sections: 1, 2, 3, 11, 12

Revision date 13/10/2017

Supersedes date 12/08/2015

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SDS number	4985
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains Tetramethylol acetylenediurea, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.