



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

1 / 17

In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product code : DPF/APF CLEANER
Trades code : HP100

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

Detergent
Sectors of use:
Industrial Manufacturing[SU3], Public domain[SU22]
Product category:
Washing and Cleaning Products (including solvent based products)

Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Via A.Olivetti 7/9
Riva di Chieri (TO) - Italy
Tel. +39 011 9468873
Fax +39 011 9468841
info@gipro.it

1.4. Emergency telephone number

Centro Antiveleni Niguarda 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze) Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I -Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05

Hazard Class and Category Code(s):
Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

2 / 17

In conformity to Regulation (EU) 2015/830

Corrosive product: causes severe skin burns and eye damage.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05 - Danger



Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

P264 - Wash hands thoroughly after handling.

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

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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/doctor.

Disposal

P501 - Dispose of contents/container according to local law.

Contains:

sodium hydroxide, tetrasodium ethylenediaminetetraacetate, TEA 85% AL 90, B4=ANFOSOL CF 3

Contains (Reg.EC 648/2004):

< 5% EDTA and salts thereof

For professional use only

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Legislative Decree n. 81 April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and amount of hazardous chemical agent and the method and frequency of exposure to the agent, you only a "moderate risk" for the health and safety of workers and that the measures envisaged in the same legislative decree are sufficient to reduce the risk.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

3 / 17

In conformity to Regulation (EU) 2015/830

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
B4=ANFOSOL CF 3	> 5 <= 10%	Eye Dam. 1, H318	01-211948941 0-3	147170-44-3	931-333-8	
2-Butoxyethanol	> 5 <= 10%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332	603-014-00-0	111-76-2	203-905-0	
sodium hydroxide	>= 2 < 5%	Skin Corr. 1A, H314	011-002-00-6	1310-73-2	215-185-5	
TEA 85% AL 90	>= 3 <= 5%	Acute Tox. 4, H302; Skin Corr. 2, H315; Eye Dam. 1, H318; STOT RE 2, H373; Aquatic Chronic 3, H412		111-42-2	203-868-0	01-2119488 930-28
tetrasodium ethylenediaminetetraacetate	> 1 <= 5%	Acute Tox. 4, H302; Eye Dam. 1, H318	607-428-00-2	64-02-8	200-573-9	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately with water.

Consult a physician immediately

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

4 / 17

In conformity to Regulation (EU) 2015/830

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

Immediately call a POISON CENTER/doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

5 / 17

In conformity to Regulation (EU) 2015/830

Prevent it from entering the sewer system.

6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
Nothing in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
In residential areas do not use on large surfaces.
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with extreme caution.
Store in a well ventilated place away from heat sources.

Public domain:
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

B4=ANFOSOL CF 3
**** Not translated ****

2-Butoxyethanol:
TLV: (as TWA) 20 ppm A3 (carcinogen recognized for the animal with unknown relevance to humans); (ACGIH 2004).
MAK: 20 ppm 98 mg/m peak limitation Category: II (4); skin absorption (H); Risk group for pregnancy: C; (DFG 20024).

sodio idrossido
**** Not translated ****

TEA 85% AL 90:
The workplace must be adequately ventilated. Where possible, install suction sources localized and effective sitemi parts air general. If these measures are not sufficient to maintain concentrations of particulates and solvent vapors below the exposure limit, you will need to make use of appropriate respiratory protective equipment.
limit values for occupational exposure



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

6 / 17

In conformity to Regulation (EU) 2015/830

2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6

Limit value type (country of origin): TLV / TWA (EC)

Limit Value: 5 mg / m³

Registration: ACGIH 2011

version:

2,2'-iminodiethanol; CAS: 111-42-2

Limit value type (country of origin): TLV / TWA (EC)

limit value: 1 mg / m³

Registration: ACGIH 2011

Values DNEL / DMEL and PNEC

DNEL / DMEL

Limit value type: DNEL / DMEL (Consumer DNEL, Systemic) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Dermal

Exposure frequency: Long-term (repeated)

limit value: 3.1 mg / kg

Limit value type: DNEL / DMEL (Consumer DNEL, Systemic) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 1.25 mg / m³

Limit value type: DNEL / DMEL (Consumer DNEL, Systemic) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Orally

Exposure frequency: Long-term (repeated)

limit value: 13 mg / kg

Limit value type: DNEL / DMEL (Worker, Systemic) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Dermal

Exposure frequency: Long-term (repeated)

limit value: 6.3 mg / kg

Limit value type: DNEL / DMEL (Worker, Systemic) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Inhalation

Exposure frequency: Long-term (repeated)

Limit Value: 5 mg / m³

Limit value type: DNEL / DMEL (Consumer DNEL, Local) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 0.25 mg / m³

Limit value type: DNEL / DMEL (Consumer DNEL, Systemic) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Dermal

Exposure frequency: Long-term (repeated)

Limit value: 0.07 mg / kg

Limit value type: DNEL / DMEL (Consumer DNEL, Systemic) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Orally

Exposure frequency: Long-term (repeated)

Limit value: 0.06 mg / kg

Limit value type: DNEL / DMEL (Worker, Local) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Inhalation

Exposure frequency: Long-term (repeated)

limit value: 1 mg / m³

Limit value type: DNEL / DMEL (Worker, Local) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 0.25 mg / m³

Limit value type: DNEL / DMEL (Worker, Systemic) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Dermal

Exposure frequency: Long-term (repeated)

Limit value: 0.13 mg / kg

PNEC

Limit value type: Water PNEC freshwater (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Limit value: 0.32 mg / l

Limit value type: Water PNEC, periodic release (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

7 / 17

In conformity to Regulation (EU) 2015/830

Limit value: 5,12 mg / l
Limit value type: Water PNEC, seawater (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
Limit value: 0.03 mg / l
Limit value type: PNEC sediment, freshwater (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
limit value: 1.7 mg / kg
Limit value type: PNEC sediment, seawater (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
Limit value: 0.17 mg / kg
Limit value type: PNEC soil (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
Limit value: 0.15 mg / kg
Limit value type: PNEC sewage treatment plant (STP) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
limit value: 10 mg / l
Limit value type: Water PNEC freshwater (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.0022 mg / l
Limit value type: Water PNEC, periodic release (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.022 mg / l
Limit value type: Water PNEC, seawater (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.00022 mg / l
Limit value type: PNEC sediment, freshwater (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.012 mg / kg
Limit value type: PNEC sediment, seawater (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.0012 mg / kg
Limit value type: PNEC soil (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.0012 mg / kg
Limit value type: PNEC sewage treatment plant (STP) (2,2'-iminodiethanol; CAS: 111-42-2)
limit value: 0.0012 mg / kg
Limit value type: PNEC sewage treatment plant (STP) (2,2'-iminodiethanol; CAS: 111-42-2)

- Substance: B4=ANFOSOL CF 3

DNEL

Systemic effects Long term Workers inhalation = 44 (mg/m³)
Systemic effects Long term Workers dermal = 12,5 (mg/kg bw/day)
Systemic effects Long term Consumers dermal = 7,5 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 7,5 (mg/kg bw/day)

PNEC

Sweet water = 0,0135 (mg/l)
sediment Sweet water = 1 (mg/kg/sediment)
Sea water = 0,00135 (mg/l)
sediment Sea water = 0,1 (mg/kg/sediment)
ground = 0,8 (mg/kg ground)

- Substance: TEA 85% AL 90

DNEL

Systemic effects Long term Workers inhalation = 5 (mg/m³)
Systemic effects Long term Workers dermal = 6,3 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,25 (mg/m³)
Systemic effects Long term Consumers dermal = 3,1 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 13 (mg/kg bw/day)
Local effects Long term Workers inhalation = 0,25
Local effects Long term Workers dermal = 0,13 (mg/kg bw/day)
Local effects Long term Consumers dermal = 0,07 (mg/kg bw/day)
Local effects Long term Consumers oral = 0,06 (mg/kg bw/day)
Local effects Long term Consumers inhalation = 0,25 (mg/m³)

PNEC

Sweet water = 0,32 (mg/l)
sediment Sweet water = 1,7 (mg/kg/sediment)
Sea water = 0,03 (mg/l)
sediment Sea water = 0,17 (mg/kg/sediment)



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

8 / 17

In conformity to Regulation (EU) 2015/830

8.2. Exposure controls



Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen

Public domain:
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
Wear mask

(b) Skin protection

(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other
When handling the pure product wear full protective skin clothing.

(c) Respiratory protection
Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
B4=ANFOSOL CF 3
**** Not translated ****

2-Butoxyethanol:

Personal protective equipment
General rules protective and hygienic measures
At work do not eat, drink or smoke.

Respiratory protection

In case of insufficient ventilation, the limit values in the workplace, excessive odor nuisance or the presence of aerosols, mists and smoke, you need to use a face mask to respiratory system independent from ambient air or a face mask for the respiratory system with filter type A or a respective combination filter (aerosol, mists and smoke, for example, A-P2 or ABEK-P2) according to EN 141.

Hand Protection

Wear rubber gloves that are approved according to EN374 standard.

Eye protection

safety glasses with side shields (EN 166).

Additional information about design of technical facilities

The workplace must be adequately ventilated. Where possible, install suction sources localized and effective sistemi of Replacement air general. If these measures are not sufficient to maintain concentrations of particulates and vapors solvents below the exposure limit, you will need to make use of appropriate respiratory protective equipment.

TEA 85% AL 90:

Personal protective equipment

Eye/face protection



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

9 / 17

In conformity to Regulation (EU) 2015/830

Safety glasses with side-shields (EN 166).
Skin protection
Hand protection
Wear protective gloves in nitrile rubber (NBR), polyvinyl chloride (PVC).
Respiratory protection
Appropriate respirator
At high concentrations of vapour/gas: gas mask with filter.
General safety and hygiene measures
At work do not eat, don't drink, don't smoke

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	liquid, limpid	
Odour	typical	
Odour threshold	not determined	
pH	9,5 - 10,5	
Melting point/freezing point	0 °C	
Initial boiling point and boiling range	100 °C	
Flash point	not determined	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	1,000 - 1,005	
Solubility(ies)	not in oil	
Water solubility	complete	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	>100 °C	
Decomposition temperature	>100 °C	
Viscosity	>2 cSt	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

Content of VOC ready to use condition: 8,00 %

SECTION 10. Stability and reactivity



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

10 / 17

In conformity to Regulation (EU) 2015/830

10.1. Reactivity

Related to contained substances:

2-Butoxyethanol:

There is no specific information on this product.

TEA 85% AL 90:

Possibility of reaction with acids. Possibility of reaction with oxidizing substances.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Nothing in particular.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 7.703,0 mg/kg

ATE(mix) dermal = 13.750,0 mg/kg

ATE(mix) inhal = 137,5 mg/l/4 h

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2-Butoxyethanol: Causes serious eye irritation.

(d) respiratory or skin sensitization: 2-Butoxyethanol: Sensitization: (Guinea Pig): negative

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: 2-Butoxyethanol: Effects carcinogenicity, mutagenicity or line mullahs for playback Ames test: negative.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

11 / 17

In conformity to Regulation (EU) 2015/830

met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

B4=ANFOSOL CF 3

**** Not translated ****

2-Butoxyethanol:

Routes of exposure: the substance can be absorbed into the body by inhalation and through the skin and by ingestion.

INHALATION RISK: A harmful contamination of air can be reached quite slowly on evaporation of this substance at 20 C.

Effects of short-term EXPOSURE: the substance is irritating to the eyes, skin and respiratory tract the substance can determine effects on the central nervous system blood kidney and liver effects of long-term or REPEATED EXPOSURE: liquid degreasing the skin characteristics.

Acute hazards/symptoms INHALATION cough. Vertigo. Drowsiness. Headache. Nausea. Weakness.

CUTE CAN BE ABSORBED! Dry scalp. (Further see inhalation).

EYE Redness. Pain. Blurred vision.

SWALLOWED, abdominal pain. Diarrhea. Nausea. Vomiting. (Further see inhalation).

LD50 (rat) Oral (mg/kg body weight) = 1746

sodio idrossido

**** Not translated ****

TEA 85% AL 90:

acute effects

Acute oral toxicity

Parameter: LD50 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Orally

Species: Rat

Effective Dose: = 6400 mg / kg

Parameter: LD50 (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Orally

Species: Rat

Effective Dose: ca. 1600 mg / kg bw / day

Parameter: LOAEL (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Orally

Species: rat (female)

Effective dose: 14 mg / kg bw / day

Exposure time: 13 weeks

of / test result: kidneys

Parameter: LOAEL (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Orally

Species: rat (male)

Effective Dose: 104 mg / kg bw / day

Exposure time: 13 weeks

of / test result: LIVER

Acute dermal toxicity

Parameter: LD50 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Dermal

Species: Rabbit

Effective Dose: > 2000 mg / kg

Parameter: LOAEL (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Dermal

Species: Rat

Effective dose: 32 mg / kg bw / day

Exposure time: 13 weeks

of / test results: blood kidneys

Parameter: LOAEL (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Dermal

Species: Mouse



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

12 / 17

In conformity to Regulation (EU) 2015/830

Effective Dose: 8 mg / kg bw / day

Exposure time: 13 weeks

of / test result: LIVER cute

Acute inhalation toxicity

Parameter: LC0 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Inhalation

Species: Rat

Effective Dose: = 1.8 mg / m³

Exposure time: 8 h

Parameter: LC0 (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Inhalation

Species: Rat

Effective Dose: = 0.2 mg / l

Exposure time: 8 h

Parameter: NOAEC (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Inhalation

Species: Rat

Effective dose: 15 mg / m³

Exposure time: 90 days

of / test result: testicular blood

Irritation and Corrosivity

Risk of serious eye damage. On the skin: irritant. It causes damage to organs through prolonged or repeated exposure. sensitization

No irritant effect.

Toxicity after repeated intake (subacute, subchronic, chronic)

subacute oral toxicity

Parameter: NOAEL (C) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Orally

Species: Rat

Effective Dose: 1000 mg / kg bw / day

Exposure time: 91 days

Subacute inhalation toxicity

Parameter: NOAEL (C) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Inhalation

Species: Rat

Effective Dose: 0.5 mg / l

Exposure time: 28 days

CMR effects (carcinogenicity, mutagenicity and toxic for reproduction)

carcinogenicity

Parameter: LOEAL (C) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Rat

Effective Dose: 250 mg / kg bw / day

Exposure time: 103 weeks

Parameter: LOEAL (C) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Topo

Effective dose: 40 mg / kg bw / day

Exposure time: 103 weeks

Reproductive toxicity

Possible adverse effects on developmental toxicity

Parameter: NOAEL (C) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Rat

Effective Dose: 300 mg / kg bw / day

Exposure time: 9 weeks

Parameter: NOAEL (C) (2,2'-iminodiethanol; CAS: 111-42-2)

Route of Exposure: Rat

Effective dose: 50 mg / l

Exposure time: 19 days

Developmental toxicity / teratogenicity

Essay on reproductive toxicity in a generation



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

13 / 17

In conformity to Regulation (EU) 2015/830

Parameter: NOAEL (C) (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Route of Exposure: Rat

Effective Dose: 1000 mg / kg bw / day

Exposure time: 9 weeks

tetrasodium ethylenediaminetetraacetate:

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): >2000 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health effects: Skin: May cause skin irritation.

Eyes:

May cause eye irritation. Inhalation: May cause irritation of the respiratory tract. Ingestion: May cause gastrointestinal tract

irritation. The toxicological properties of this substance have not been fully investigated.

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

SECTION 12. Ecological information

12.1. Toxicity

B4=ANFOSOL CF 3

**** Not translated ****

2-Butoxyethanol:

Ecotoxicity effects

Toxicity to fish LC50 *Poecilia reticulata*: 983 mg/l; 7 d; literature value

LC50 Bluegill sunfish: 1,490 mg/l; 96 h; literature value

LC50 *Pimephales promelas*: 2,137 mg/l; 96 h; literature value

Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l; 96 h; literature value

Toxicity to daphnia and other aquatic invertebrates.

Daphnia magna: 1,720 mg/l; 24 h; literature value

C(E)L50 (mg/l) = 1880

sodium hydroxide

**** Not translated ****

TEA 85% AL 90:

Toxicity

Aquatic toxicity:

Acute (short-term) fish

Parameter: LC50 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Species: fathead minnows

Effective Dose: = 11800 mg / l

Exposure time: 96 h

Parameter: LC50 (2,2'-iminodiethanol; CAS: 111-42-2)

Species: fathead minnows

Effective Dose: = 1460 mg / l

Exposure time: 96 h

Acute (short-term) toxicity dafine

Parameter: EC50 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)

Species: *Ceriodaphnia dubia*

Effective Dose: = 609.88 mg / l

Exposure time: 48 h



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

14 / 17

In conformity to Regulation (EU) 2015/830

Parameter: EC50 (2,2'-iminodiethanol; CAS: 111-42-2)
Species: Daphnia magna
Effective Dose: = 55 mg / l
Exposure time: 48 h
Chronic (long-term) toxicity dafine
Parameter: NOEC (2,2'-iminodiethanol; CAS: 111-42-2)
Species: Daphnia magna
Effective Dose: 0,78 mg / l
Exposure time: 21 days
Acute (short-term) algae toxicity
Parameter: EC50 (2,2', 2''-NITRILOTRIETHANOL; CAS: 102-71-6)
Species: Scenedesmus subspicatus
Effective Dose: = 512 mg / l
Exposure time: 72 h
Parameter: EC50 (2,2'-iminodiethanol; CAS: 111-42-2)
Species: Pseudokirchneriella subcapitata
Effective Dose: = 2.2 mg / l
Exposure time: 96 h

tetrasodium ethylenediaminetetraacetate:

Ecotoxicity: Ecotoxicity in water (LC50): 760 mg/l 96 hours [Bull gill sunfish]. 59.8 mg/l 96 hours [Fathead Minnow].
BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

B4=ANFOSOL CF 3
**** Not translated ****

2-Butoxyethanol:
Biodegradation/killing
Specification: Biodegradation
Value = 90.4%
For. test: 28 Days
Readily biodegradable.
Bioaccumulative potential

TEA 85% AL 90:
Biodegradation
Readily biodegradable.

Sodium salt of ethylenediaminetetracetic acid
**** Not translated ****

12.3. Bioaccumulative potential

B4=ANFOSOL CF 3
**** Not translated ****

2-Butoxyethanol:
Little bioaccumulative



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

15 / 17

In conformity to Regulation (EU) 2015/830

TEA 85% AL 90:
Little bioaccumulative.

Sodium salt of ethylenediaminetetraacetic acid
**** Not translated ****

12.4. Mobility in soil

B4=ANFOSOL CF 3
**** Not translated ****

2-Butoxyethanol:
product has very high potential for mobility.

TEA 85% AL 90:
The product has potential for very high mobility.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The surfactant formulated in accordance with the criteria set out in Regulation (EC) biodegradabilit/648/2004 on detergents. All supporting data shall be kept available to the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, the above authority.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

16 / 17

In conformity to Regulation (EU) 2015/830

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

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

B4=ANFOSOL CF 3

**** Not translated ****

2-Butoxyethanol:

National provisions

Italy: Legislative Decree 81/2008 (Consolidated Act on the protection of health and safety in the workplace) as amended and Directive 2009/161/EU-chemical risk assessment within the meaning of title IX

Pericolosit class for water

Class: 1 Classification according to VwVwS

International standards

Directive 67/548/EEC (classification, packaging and labelling of dangerous substances), as amended.

Directive 1999/45/EC (classification, packaging and labelling of dangerous preparations) as amended.

Regulation No. 1907/2006/EC (REACH).

Regulation No. 1272/2008 (CLP).

Regulation No. 790/2009/EC (amending, for the purposes of 19adeguamento to technical and scientific progress, ATP of Regulation No 1272/2008/EC).

TEA 85% AL 90:

Directive 67/548/EEC (classification, packaging and labelling of dangerous substances), as amended.

Directive 1999/45/EC (classification, packaging and labelling of dangerous preparations) as amended.

Regulation No. 1907/2006/EC (REACH).

Regulation No. 1272/2008 (CLP).

Regulation No. 790/2009/EC (amending, for the purposes of 19adeguamento to technical and scientific progress, ATP of regulation

1272/2008/EC).

EU regulation 286/2011 (amending, for the purposes of 19adeguamento to technical and scientific progress (ATP) of regulation

1272/2008/EC).



SAFETY DATA SHEET

DPF/APF CLEANER

Issued on 09/16/2015 - Rel. # 3 on 09/21/2020

17 / 17

In conformity to Regulation (EU) 2015/830

EU regulation 2012/618 (amending, for the purposes of 19adeguamento to technical and scientific progress (ATP) of regulation # 1272/2008/EC).

EU regulation 487/2013 (amending, for the purposes of 19adeguamento to technical and scientific progress (ATP) of Regulation No 1272/2008/EC).

REGULATION (EU) No 1357/2014 - waste:
HP8 - Corrosive

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

- H318 = Causes serious eye damage.
- H302 = Harmful if swallowed.
- H312 = Harmful in contact with skin.
- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.
- H332 = Harmful if inhaled.
- H314 = Causes severe skin burns and eye damage.
- H373 = May cause damage to organs through prolonged or repeated exposure .
- H412 = Harmful to aquatic life with long lasting effects.

Classification based on data of all mixture components

GENERAL BIBLIOGRAPHY:

- Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
- Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
- Council Regulation (EC) no 758/2013 of the European Parliament
- Regulation (EC) no 2015/830 of the European Parliament
- Regulation (EC) No 528/2012 European Parliament and subsequent updates
- Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty-Industrial Hygiene and Toxicology
- N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.

The user must ensure the fitness and completeness of the information in relation to the specific use of the product.

You should not interpret it as a guarantee of any specific property of the product.

For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous