## **ELECTRO CLEANER N**

Revision nr. 2

Dated 12/10/2018

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Replaced revision:1 (Dated: 28/09/2018)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

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

### 1.1. Product identifier

Product name

**ELECTRO CLEANER N** 

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

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

TECHNIQUA HANDELS GmbH Reichenhaller Straße 15 D-83451 Piding Tel: +49 (8651) - 767 62 51 E-Mail: sales@techniqua.de

1.4. Emergency telephone number

Poison information center

Tel: +49 (0) 6131 - 19240, Langenbeckstraße 1, D- 55131 Mainz

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 3

Carcinogenicity, category 2

Reproductive toxicity, category 1B

Specific target organ toxicity - repeated exposure, category 2

Skin irritation, category 2

H229

H351

Suspected of causing cancer.

May damage fertility. May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Skin irritation, category 2

H315

Causes skin irritation.

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3

Specific target organ toxicity - single exposure, category 3

Specific target organ toxicity - single exposure, category 3

H335

May cause drowsiness or dizziness.

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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## Hazard pictograms:





Signal words: Danger

#### Hazard statements:

H229 Pressurised container: may burst if heated.

Suspected of causing cancer. H351

May damage fertility. May damage the unborn child. H360FD

H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

May cause respiratory irritation. H335 May cause drowsiness or dizziness. H336 Restricted to professional users.

### Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Do not pierce or burn, even after use. P251

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents / container to . . . P201 Obtain special instructions before use.

P280 Wear protective gloves / eye protection / face protection. P308+P313 IF exposed or concerned: Get medical advice / attention.

Contains: 1,2 EPOSSIBUTANO

1-BROMOPROPANO

2-METILPROPANO-2-OLO

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3. Composition/information on ingredients**

## 3.2. Mixtures

Contains:

x = Conc. % Identification Classification 1272/2008 (CLP)

1-BROMOPROPANO

Flam. Liq. 2 H225, Repr. 1B H360FD, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336 CAS 106-94-5  $74 \le x < 78$ 

EC 203-445-0

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**METHYLAL** 

CAS 109-87-5  $3 \le x < 3,5$  Flam. Liq. 2 H225

EC 203-714-2

INDEX -

**CARBON DIOXIDE** 

CAS 124-38-9  $3 \le x < 3,5$  Substance with a community workplace exposure limit.

EC 204-696-9

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2-METILPROPANO-2-OLO

CAS 75-65-0 3 ≤ x < 3,5 Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335

EC 200-889-7

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Reg. no. 2119444321-51-XXXX

1,2 EPOSSIBUTANO

CAS 106-88-7  $1 \le x < 1,5$  Flam. Liq. 2 H225, Carc. 2 H351, Acute Tox. 4 H302, Acute Tox. 4 H312,

Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,

Aquatic Chronic 3 H412

EC 203-438-2

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Reg. no. 01-2119449161-46-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 3,25 %

## **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## **SECTION 5. Firefighting measures**

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#### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

### 6.2. Environmental precautions

Do not disperse in the environment.

#### 6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

## 7.2. Conditions for safe storage, including any incompatibilities

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Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

### 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

## Regulatory References:

DEU Deutschland TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte

FRA JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 France

GBR United Kingdom EH40/2005 Workplace exposure limits Italia Decreto Legislativo 9 Aprile 2008, n.81

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC. OEL EU ΕU

TLV-ACGIH **ACGIH 2018** 

| 1-BROMOPROPANO Threshold Limit Value |         |        |     |            |     |  |
|--------------------------------------|---------|--------|-----|------------|-----|--|
| Туре                                 | Country | TWA/8h |     | STEL/15min |     |  |
|                                      |         | mg/m3  | ppm | mg/m3      | ppm |  |

|                                      | •       |        |     |            |     |  |  |
|--------------------------------------|---------|--------|-----|------------|-----|--|--|
|                                      |         | mg/m3  | ppm | mg/m3      | ppm |  |  |
| TLV-ACGIH                            |         | 50     | 0   | 0          | 0   |  |  |
| CARBON DIOXIDE Threshold Limit Value |         |        |     |            |     |  |  |
| Type                                 | Country | TWA/8h |     | STEL/15min |     |  |  |

| Inreshold Limit Val | ue      |        |      |            |       |  |
|---------------------|---------|--------|------|------------|-------|--|
| Туре                | Country | TWA/8h |      | STEL/15min |       |  |
|                     |         | mg/m3  | ppm  | mg/m3      | ppm   |  |
| AGW                 | DEU     | 9100   | 5000 | 18200      | 10000 |  |
| MAK                 | DEU     | 9100   | 5000 | 18200      | 10000 |  |
| WEL                 | GBR     | 9150   | 5000 | 27400      | 15000 |  |
| VLEP                | ITA     | 9000   | 5000 |            |       |  |
| OEL                 | EU      | 9000   | 5000 |            |       |  |
| TLV-ACGIH           |         | 9000   | 5000 | 54000      | 30000 |  |

| METHYLAL            |         |        |      |            |      |      |
|---------------------|---------|--------|------|------------|------|------|
| Threshold Limit Val | ue      |        |      |            |      |      |
| Туре                | Country | TWA/8h |      | STEL/15min |      |      |
|                     |         | mg/m3  | ppm  | mg/m3      | ppm  |      |
| AGW                 | DEU     | 960    | 300  | 1920       | 600  |      |
| VLEP                | FRA     | 3100   | 1000 |            |      |      |
| WEL                 | GBR     | 3160   | 1000 | 3950       | 1250 |      |
| TLV-ACGIH           |         | 3112   | 1000 |            |      | <br> |

Legend:

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(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

None required.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

Auto-ignition temperature

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

## **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance aerosol yellowish Colour characteristic Odour Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not applicable Boiling range Not available Flash point Not applicable Not available **Evaporation Rate** Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density 0,94 Not available Solubility Partition coefficient: n-octanol/water Not available

Not available

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Decomposition temperature
Viscosity
Not available
Explosive properties
Not available
Oxidising properties
Not available
Not available

#### 9.2. Other information

Total solids (250°C / 482°F) 83,75 %

 VOC (Directive 2010/75/EC):
 3,25 % - 30,55 g/litre

 VOC (volatile carbon):
 1,54 % - 14,45 g/litre

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

Avoid overheating.

#### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

## 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

## 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

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### Interactive effects

Information not available

### **ACUTE TOXICITY**

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture:

### METHYLAL

>2000 mg/kg

LD50 (Oral) 6453 mg/kg Rat - Wistar

LD50 (Dermal) > 5000 mg/kg Rabbit - New Zeland white

LC50 (Inhalation) 57 mg/l Mouse - Swiss

### SKIN CORROSION / IRRITATION

Causes skin irritation

## SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

## RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## CARCINOGENICITY

Suspected of causing cancer

## REPRODUCTIVE TOXICITY

May damage fertility - May damage the unborn child

## STOT - SINGLE EXPOSURE

May cause respiratory irritation
May cause drowsiness or dizziness

## STOT - REPEATED EXPOSURE

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May cause damage to organs

### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

## 12.1. Toxicity

**METHYLAL** 

LC50 - for Fish > 1000 mg/l/96h Danio rerio EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

## 12.2. Persistence and degradability

**METHYLAL** 

Solubility in water > 10000 mg/l

NOT rapidly degradable

## 12.3. Bioaccumulative potential

METHYLAL

Partition coefficient: n-octanol/water 0,18 BCF 0,6

### 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## 12.6. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID. IMDG. 1950

IATA:

### 14.2. UN proper shipping name

ADR / RID: **AEROSOLS** IMDG: **AEROSOLS** 

IATA: AEROSOLS, NON-FLAMMABLE

## 14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.2

IMDG: Class: 2 Label: 2.2

Label: 2.2 IATA: Class: 2



### 14.4. Packing group

ADR / RID, IMDG,

IATA:

IMDG:

## 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

## 14.6. Special precautions for user

ADR / RID: HIN - Kemler: --Limited Tunnel Quantities: 1 restriction code: (D)

Special Provision: -

EMS: F-D, S-U Limited Quantities: 1

IATA: Cargo: Maximum Packaging instructions:

quantity: 150 Kg

203

Pass.: Maximum Packaging

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quantity: 75 Kg A145, A167, A802 instructions:

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

Information not relevant

## **SECTION 15. Regulatory information**

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

Special Instructions:

Seveso Category - Directive 2012/18/EC: P3b

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Contained substance

Point 30 1-BROMOPROPANO

Nr. Reg.: 2119519252-48

Substances in Candidate List (Art. 59 REACH)

1-BROMOPROPANO Nr. Reg.: 2119519252-48

Substances subject to authorisation (Annex XIV REACH)

1-BROMOPROPANO Nr. Reg.: 2119519252-48

Sunset Date: 04/07/2020

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

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No chemical safety assessment has been processed for the mixture and the substances it contains.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Carc. 2 Carcinogenicity, category 2
Repr. 1B Reproductive toxicity, category 1B

Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H302 Harmful if swallowed.H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration

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REACH: EC Regulation 1907/2006

- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 11 / 12 / 15.