



MATERIAL SAFETY DATA SHEET

compliant with Regulation (EC) No. 1907/2006 of 18 December 2006 – REACH as amended

Release date: 09/12/2014

Update date: 29/07/2024

Version: 8.0/EN

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

1.1 Product identifier:

Trade name AROX Insect Plate EXTRA / AROX Płytką na owady EXTRA
Catalog number 993

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

1.2.1. Significant identified uses

PT18 - Insecticides, acaricides and products used to control other arthropods. Products used to control arthropods (e.g., insects, arachnids, and crustaceans) by means other than repelling or attracting them.
A biocidal product for controlling flying insects.

1.2.2. Uses advised against

All other than those mentioned

1.3 Details of the supplier of the safety data sheet:

Agrecol Sp. z o. o. Mesznary 2, 98-400 Wieruszów, Poland
Tel./Fax: +48 62 78 32 000
E-mail address of the person responsible for the safety data sheet: agrecol@agrecol.pl

1.4 Emergency telephone number:

Producer +48 62 78 32 000 (from 7:00 to 15:00)
General emergency telephone number 112
Fire brigade 998
Medical emergency 999
Toxicology Information Center in Warsaw +48 22 619 55 54

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture:

Classification of the mixture in accordance with Regulation (EC) 1272/2008 [CLP]

Skin corrosion/irritation, category 2 H315
Acute aquatic toxicity, category 1 H400
Chronic aquatic toxicity, category 1 H410

2.2 Label elements

Labelling in accordance with Regulation (EC) 1272/2008 [CLP]

Pictograms indicating the type of hazard:



Signal words:

WARNING

Hazardous ingredients:

Not applicable

Hazard statements:

H315

Causes skin irritation.

H410

Very toxic to aquatic life with long lasting effects

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P273

Avoid release to the environment.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P501

Dispose of contents/container into appropriately marked containers for hazardous or special waste.

Additional information about threats:

Not applicable

Tactile danger warning:

Not applicable

Child-resistant closure:

Not applicable

2.3 Other hazards:

The product does not contain substances that meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) substances in accordance with Annex XIII of the REACH Regulation. The product does not contain substances included



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in the list established in accordance with Article 59(1) that have endocrine disrupting properties, or substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name of the substance	%	Product ID	Classification according to the regulation (EC) No. 1272/2008 [CLP]	SCL, M-factor, ATE
Transfluthrin	12	CAS number: 118712-89-3 EC number: 405-060-5 Index number: 607-223-00-8	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-
Geraniol	0.01	CAS number: 106-24-1 EC number: 203-377-1 Index number: 603-241-00-5	Skin Sens.1;H317	-

Full text of H phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes: Remove the injured person to fresh air. If any disturbing symptoms occur, call a doctor immediately or take the injured person to a hospital, showing them the packaging or label.

After inhalation exposure: In case of inhalation, remove the victim to fresh air and provide rest. If you feel unwell, consult a doctor.

After skin contact: In case of skin contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After eye contact: Flush eyes with plenty of water for several minutes (approximately 15), holding the eyelids wide open. Avoid strong water jets due to the risk of corneal damage. Consult a doctor.

After exposure via the gastrointestinal tract: Do not induce vomiting. Rinse mouth with water and seek medical attention immediately. If the victim is conscious, give them plenty of water to drink.

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

Symptoms: no information available.

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

No specific antidote. Treat symptomatically.
The decision on the course of action is made by the doctor after assessing the injured person's condition.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, extinguishing powder, water spray or fog.

Inappropriate extinguishing media: A dense stream of water – danger of spreading fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Fire produces hazardous vapors and smoke containing toxic decomposition products. Do not exhale fumes.

5.3. Advice for firefighters

Fire extinguishing instructions: Appropriate breathing apparatus may be necessary.

Protection in the event of fire: Do not enter a fire zone without protective equipment and breathing apparatus.

Other information: Avoid contamination of surface waters. Isolate contaminated fire extinguishing water and prevent it from entering sewers or wastewater systems. Dispose of fire debris and contaminated fire extinguishing water in accordance with regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear suitable protective clothing, gloves and safety glasses or face shield. Chemical-resistant gloves (according to standard NF EN 374 or equivalent). EC EN 166 "3". Wear safety glasses. Personal protective equipment. EN ISO 20345.

Emergency procedures: Evacuate personnel to a safe location.

6.1.2. For those providing assistance

Protective equipment: Wear appropriate protection for your body, head and hands.



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6.2. Environmental precautions

Prevent from entering soil. Prevent from entering sewers/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Do not allow firefighting wastewater to discharge into sewers or waterways. Notify authorities if liquid enters sewers or public waters.

6.3.1. Preventing the spread of contamination If possible, stop the leak.

6.3.2. Removal of contamination Rinse small amounts of spilled material with water. Soak up large amounts of spilled product with absorbent material (sand, diatomaceous earth, sawdust) and collect in a labeled waste container. Rinse the spill area thoroughly with water.

6.3.3. Other information Avoid contamination of surface waters.

6.4. References to other sections

Protection : Section 8

Waste treatment methods: section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional risks during processing: Do not allow fire extinguishing agent residues to enter sewers or watercourses. Do not contaminate water bodies with the product or its packaging.

Precautions regarding safe conduct: Avoid contact with skin and eyes. Do not eat, drink, or smoke where the product is used. Before leaving work, wash hands and all exposed areas with mild soap and water. Remove contaminated clothing and shoes. Clean equipment and clothing after work.

7.2. Conditions for safe storage, including information on any incompatibilities

Technical measures: Store only in the original packaging in a cool, well-ventilated place. Protect from light. Keep away from food, beverages, and animal feed.

Storage conditions: Please follow all safety instructions.

7.3. Specific end use(s)

Biocidal product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain any substances subject to exposure control in the work environment according to the Regulation of the Minister of Labor and Social Policy on the highest permissible concentrations and intensities of factors harmful to health in the work environment in Poland (Journal of Laws 2014, item 817, as amended).

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Process containment and workstation isolation are the most effective technical protective measures. The scope of measures used is selected depending on the actual hazards during product use. If mists or vapors are generated, use exhaust ventilation. In conditions where exposure cannot be eliminated by engineering and technical measures or they are ineffective, use additional personal protective equipment. Monitor exposure and implement all possible technical measures to ensure that product concentrations in the workplace are below recommended exposure limits.

8.2.2. Individual protection measures such as personal protective equipment

Eye or face protection: Not required for normal use.

Hand protection: Choosing the right gloves depends not only on the material, but also on the brand and quality, which vary between manufacturers. The resistance of the glove material can be determined after testing. The exact time of glove degradation must be determined by the manufacturer.

It is recommended to wear disposable, tight, five-finger protective gloves made of nitrile or a material with similar resistance to chemical agents, corresponding to at least level 2 of protection effectiveness (breakthrough time >30 min) according to the EN 374 standard, with a thickness of at least 0.12 mm. Wash your hands with soap and water each time after contact with the product.

Skin protection: Wear protective clothing appropriate to workplace conditions and permeation characteristics. Wash contaminated skin with soap and water.

Respiratory protection: Not required under normal use. If adequate ventilation is not available, wear filtering respirators with appropriate filters.

Thermal hazards : Not applicable.

8.2.1. Environmental exposure control

Do not allow it to spread in the environment and enter sewers and watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) State of matter at 20 °C

A plate soaked in an active substance



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b) Color	White tile
c) Smell	Perceptible
d) Melting/freezing point	No data available
e) Boiling point or initial boiling point and boiling range	No data available
f) Flammability of materials	No data available
g) Lower and upper limit explosiveness	Not applicable
h) Flash-point	Not applicable
i) Autoignition temperature	Not applicable
j) Decomposition temperature	Not applicable
k) pH	No data available
l) Kinematic viscosity	Not applicable
m) Solubility	It does not dissolve in water
n) Partition coefficient: n-octanol/water	No data available
o) Vapor pressure	Not applicable
p) Density or relative density	No data available
q) Relative vapor density	Not applicable
r) Characteristics of molecules	No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

The product is stable under normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Absent under normal conditions.

10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

During combustion or thermal decomposition, toxic and irritating product vapors may be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008

11.1.1. Hazard classes for the mixture

a) Acute toxicity of the mixture	Oral: no data available. Inhalation: no data available. Dermal: no data available.	
b) Skin corrosion/irritation		Irritates the skin
c) Serious eye damage/eye irritation		no data available.
d) Respiratory or skin sensitization		no data available.
e) Mutagenic effect on reproductive cells		no data available.
f) Carcinogenic effect		no data available.
g) Reproductive toxicity		no data available.
h) Specific target organ toxicity – single exposure		no data available.
i) Specific target organ toxicity - repeated exposure		no data available.
j) Aspiration hazard		no data available.

11.1.2. Toxicological data of the substances in the mixture.

Transfluthrin

a) Acute toxicity

LD ₅₀ oral (rat)	>5000 mg/kg
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LD ₅₀ , skin (rat)	>5000 mg/kg
LC ₅₀ inhalation (rat)	> 0.513 mg/L/4h

- | | |
|---|---------------------|
| b) Skin corrosion/irritation | Irritates the skin. |
| c) Serious eye damage/eye irritation | no data available. |
| d) Respiratory or skin sensitization | no data available. |
| e) Mutagenic effect on reproductive cells | no data available. |
| f) Carcinogenic effect | no data available. |
| g) Reproductive toxicity | no data available. |
| h) Specific target organ toxicity – single exposure | no data available. |
| i) Specific target organ toxicity - repeated exposure | no data available. |
| j) Aspiration hazard | no data available. |

Geraniol

a) Acute toxicity

LD ₅₀ oral (rat)	3600 mg/kg
LD ₅₀ skin (rat)	>5000 mg/kg

- | | |
|---|-----------------------------------|
| b) Skin corrosion/irritation | no data available. |
| c) Serious eye damage/eye irritation | no data available. |
| d) Respiratory or skin sensitization | May cause allergic skin reaction. |
| e) Mutagenic effect on reproductive cells | no data available. |
| f) Carcinogenic effect | no data available. |
| g) Reproductive toxicity | no data available. |
| h) Specific target organ toxicity – single exposure | no data available. |
| i) Specific target organ toxicity - repeated exposure | no data available. |
| j) Aspiration hazard | no data available. |

11.1.3. Summary of Results

Irritates the skin.

11.1.4. Other hazard classes

No data available.

11.1.5. Information on likely routes of exposure to the mixture

Mixture - skin contact.

11.1.6. Symptoms related to the physical, chemical and toxicological properties of the mixture

No data available.

11.1.7. Delayed, immediate and chronic effects from short- and long-term exposure to the mixture

May cause skin irritation.

11.1.8. Effects of Interaction

No data available.

11.1.9. No detailed data

No data available.

11.1.10. Mixtures

Data on the toxicology of the mixture components in section 11.1.2.

11.1.11. Information on mixtures versus information on substances

11.1.11.1. Interactions between substances in a mixture

No data available.

11.1.11.2. Data on the toxicology of the mixture components

In section 11.1.2.

11.2. Information on other hazards

The product does not contain substances included in the list established in accordance with Article 59(1) with endocrine disrupting properties or substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity: Very toxic to aquatic life with long lasting effects.

Toxicity of ingredients:

Transfluthrin	
LC ₅₀ for fish	0.0007 mg/l/96h (<i>Oncorhynchus mykiss</i>)
EC ₅₀ for crustaceans	0.0012 mg/l/48h (<i>Daphnia magna</i>)



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EC ₅₀ for algae	>0.1 mg/l/72h (<i>Desmodesmus subspicatus</i>)
Geraniol	
LC ₅₀ for fish	22 mg/l/96h (<i>Danio rerio</i>)
EC ₅₀ for crustaceans	10.8 mg/l/48h (<i>Daphnia magna</i>)
EC ₅₀ for algae	13.1 mg/l/72h (<i>Desmodesmus subspicatus</i>)

12.2. Persistence and degradability

Abiotic decomposition	No data available
Physical and photochemical elimination	No data available
Biodegradability	No data available

12.3. Bioaccumulative potential

n-octanol-water partition coefficient (log K _{ow})	No data available
Bioconcentration factor (BCF)	

Transfluthrin

BCF	41,607
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12.4. Mobility in soil

Transfluthrin

logK	> 4000
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12.5. Results of PBT and vPvB assessment

The product does not contain any substances assessed as PBT or vPvB.

12.6. Endocrine disrupting properties

The mixture does not contain any substances that are suspected of having endocrine-disrupting properties.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Removal methods: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product should not be disposed of via the sewage system. It should be disposed of via a waste collection, recovery, or disposal facility authorized by the appropriate authority. Disposal of this product should always comply with environmental protection and waste disposal legislation, as well as local authority requirements. Dispose of contents/container in appropriately labeled waste containers in accordance with national regulations .

Waste code: Proposed code: 07 04 04* Other organic solvents, washing liquids and mother liquors.

Packaging

Removal methods: Waste generation should be avoided or minimized wherever possible. Only completely emptied packaging waste should be recycled.

Special precautions: Dispose of the product and its packaging safely. Empty containers or their linings may retain product residue. Avoid release of spilled material, runoff, or contact with soil, surface water, groundwater, drains, and sewers. The product and empty product packaging are subject to selective waste collection.

Packaging waste code: Proposed code: 15 01 02 (plastic packaging).

Community legal acts:

Directive 2018/851, Directive 2018/852

National legal acts:

Act of 13 June 2013 on the management of packaging and packaging waste (consolidated text: Journal of Laws of 2023, item 160)

Act of 14 December 2012 on waste (consolidated text: Journal of Laws of 2022, item 699, as amended).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

SECTION 14: Transport Information

ADR	IMDG	IATA	ADN	RID
14.1. UN Number or ID Number				



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UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name				
HAZARDOUS MATERIAL ENVIRONMENT, PERMANENT INO	HAZARDOUS MATERIAL ENVIRONMENT, PERMANENT INO	HAZARDOUS MATERIAL ENVIRONMENT, CONSTANT INO .	HAZARDOUS MATERIAL ENVIRONMENT, PERMANENT INO	HAZARDOUS MATERIAL ENVIRONMENT, PERMANENT INO
Description of the transport document				
UN 3077 HAZARDOUS SUBSTANCE ENVIRONMENTAL, PERMANENT (TRANSFLUTHRIN) INO, 9, III, (E)	UN 3077 HAZARDOUS SUBSTANCE ENVIRONMENTAL, PERMANENT (TRANSFLUTHRIN) INO, 9, III, (E)	UN 3077 HAZARDOUS SUBSTANCE ENVIRONMENTAL, PERMANENT (TRANSFLUTHRIN) INO, 9, III, (E)	UN 3077 HAZARDOUS SUBSTANCE ENVIRONMENTAL, PERMANENT (TRANSFLUTHRIN) INO, 9, III, (E)	UN 3077 HAZARDOUS SUBSTANCE ENVIRONMENTAL, PERMANENT (TRANSFLUTHRIN) INO, 9, III, (E)
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Yes	Yes	Yes	Yes	Yes
14.6. Special precautions for users				
They are not known				
14.7 Bulk maritime transport in accordance with IMO instruments				
Not rated				

Transport/further information
Limited quantities LQ ≤ 5 kg

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations specific to the substance or mixture

15.1.1. EU regulations

Regulation (EC) No 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Commission Delegated Regulation (EU) 2017/2100 of 4 September 2017 establishing scientific criteria for the determination of endocrine-disrupting properties pursuant to Regulation (EU) No 528/2012 of the European Parliament and of the Council.

Commission Regulation (EU) 2018/605 of 19 April 2018 amending Annex II to Regulation (EC) No 1107/2009 by establishing scientific criteria for the determination of endocrine disrupting properties.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Directive (EU) 2018/851 of the European Parliament and of the Council of 30 May 2018 on waste.

Directive (EU) 2018/852 of the European Parliament and of the Council of 30 May 2018 on packaging and packaging waste.

15.1.2. National regulations (Poland)

Act on substances and their mixtures of 25 February 2011 (consolidated text: Journal of Laws of 2022, item 1816).

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment. (Journal of Laws of 2018, item 1286, as amended).

Act of 14 December 2012 on waste (consolidated text: Journal of Laws of 2023, item 1887).

Act of 13 June 2013 on the management of packaging and packaging waste (consolidated text: Journal of Laws of 2024, item 927).

Government Statement of 15 February 2021 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (consolidated text: Journal of Laws of 2021, item 874, as amended).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

Act of 19 August 2011 on the transport of dangerous goods (consolidated text: Journal of Laws of 2021, item 756, as amended).

Classification of dangerous goods according to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).



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Regulation of the Minister of Labor and Social Policy of 26 September 1997 on general occupational health and safety regulations (Journal of Laws 2003 No. 169 item 1650, as amended)
Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical factors in the workplace (consolidated text: Journal of Laws of 2016, item 1488, as amended).

15.2. Chemical safety assessment

The supplier has not carried out a chemical safety assessment for the substance/mixture.

SECTION 16: Other information

Full text of H and EUH statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms

Skin Irrit. 2	Skin corrosion/irritation, category 2
Skin Sens 1	Respiratory/skin sensitisation, category 1
Aquatic Acute 1	Posing a hazard to the aquatic environment - acute hazard, category 1
Aquatic Chronic 1	Posing a risk to the aquatic environment - chronic risk, category 1
EC number	I.e. EINECS, ELINCS or NLP, is the official number of a given substance in the European Union
CAS number	A numerical designation assigned to a chemical substance by the American Chemical Abstracts Service.
PBT	Marking persistent, bioaccumulative and toxic substances
vPvB	Marking of very persistent substances with a very high bioaccumulation potential
LD ₅₀	The dose of a substance that causes the death of 50% of the tested population
LC ₅₀	The dose of a substance that causes the death of 50% of the tested population
NDS	Highest permissible concentration
NDSch	Maximum allowable momentary concentration
NDSP	Highest permissible ceiling concentration
DNEL	Calculated No Change Level
NOAEL	The highest dose of a substance at which no side effects are observed
PNEC	Predicted No Effect Concentration
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA	International Air Transport Association
IMDG	International maritime transport of dangerous goods
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations for the international carriage of dangerous goods by rail

Changes made to the card

Safety data sheet update according to Commission Regulation (EU) 2020/878.
Sections 8, 13, 15. Version 8 replaces all previous ones.

Key Literature and Data Sources

Annex to Regulation (EU) 2020/878 of 18 June 2020
The legal provisions cited in section 15 of the Charter.
Information from the Office for Chemical Substances.
Safety data sheets of manufacturers of substances and mixtures..

The procedure used to classify mixtures according to Regulation (EC) 1272/2008 [CLP].

Calculation principle.

Training Recommendations

Before working with this product, employees must undergo occupational health and safety training related to the presence of chemical agents in the work environment. Conduct, document, and familiarize employees with the results of an occupational risk assessment for the workplace associated with the presence of chemical agents.

Additional information

The information contained in this safety data sheet applies only to the product listed in the title. The data contained in this data sheet should be considered solely as an aid to the safe use of the product. Because storage, transport, and application conditions are beyond our control, they cannot constitute a legal guarantee. Statutory regulations and any third-party rights must be observed in all cases. This data sheet does not constitute an assessment of workplace hazards. The product should not be used for purposes other than those specified in section 1 without prior consultation with the manufacturer.



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