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Product name	AUTHORITY® 480SC	February 2019
		Supersedes June 2018

SAFETY DATA SHEET

Authority® 480 SC

Revision: Sections containing a revision or new information are marked with a ♣.

♣ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. **Product identifier** **Authority® 480 SC**
Contains toluene
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** Can be used as herbicide only.
- 1.3. **Details of the supplier of the safety data sheet** **CHEMINOVA A/S**, a subsidiary of FMC Corporation
Thyborønvej 78
DK-7673 Harboøre
Denmark
SDS.Ronland@fmc.com
- Local contact (South Africa) -** **FMC Chemicals (Pty) Ltd**
Pegasus Building 1, Floor 2
210 Amarand Ave
Menlyn
Pretoria, 0181
South Africa
- 1.4. **Emergency telephone number** **For any emergency or poisoning contact:**
Griffon Poison Information Centre (24 hrs)
+27-(0)-82-446-8946
- For fire, leak, spill or other accident emergencies**
+1 703 / 527 3887 (CHEMTREC - Collect)

♣ SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture** Toxic to reproduction: Category 2 (H361d)
- WHO classification Class III, slightly hazardous
- Health hazards The product contains toluene, which is suspected of damaging the unborn child.
- Environmental hazards The product is not expected to be toxic to aquatic organisms.

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2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Authority® 480SC
Contains toluene

Hazard pictogram (GHS08)



Signal word Warning

Hazard statement
H361d Suspected of damaging the unborn child.

Supplementary hazard statement
EUH401 To avoid risks to human health and the environment, comply with the instructions of use.

Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves, protective clothing and eye protection.
P308+P313 IF exposed or concerned: Get medical attention/advice.
P405 Store locked up.
P501 Dispose of contents/container as hazardous waste.

2.3. **Other hazards** None of the ingredients in the product meets the criteria for being PBT or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances** The product is a mixture, not a substance

3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredient

Sulfentrazone Content: 40% w/w
CAS name Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluormethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-
122836-35-5
CAS no.
EU name Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluormethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-
Chemical names N-(2,6-Dichloro-3-(4-(difluormethyl)-3-methyl-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl)phenyl)methanesulfonamide
N-[2,4-Dichloro-5-(4-(difluormethyl)-3-methyl-5-oxo-4,5-dihydro-[1,2,4] triazol-1-yl)phenyl]methanesulfonamide
ISO-name Sulfentrazone
EC no. (EINECS no.) None
EU index no. None
Molecular weight 378.2
Classification of the ingredient Acute inhalation toxicity: Category 4 (H332)

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<u>Reportable ingredients</u>	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Propane-1,2-diol Reg. no. 01-2119456809-23	5 - 10	57-55-6	200-338-0	Not classified
Toluene Reg. no. 05-2114615130-69	1 - 5	108-88-3	203-625-9	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) Repr. 2 (H361d) Asp. Tox. 1 (H304) STOT SE 3 (H336) STOT RE 2 (H373)

♣ SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
Skin contact	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. Get medical attention if irritation develops.
Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention if irritation persists.
Ingestion	Let the exposed person rinse mouth and drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.

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

None known

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

Immediate medical attention is required in case of ingestion.

It may be helpful to show this safety data sheet to physician.

Notes to physician

A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

♣ SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulphur dioxide, carbon monoxide, carbon dioxide and various chlorinated and fluorinated organic

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compounds.

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

♣ SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

1. use personal protection equipment; see section 8
2. call emergency telephone no.; see section 1
3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.

Stop the source of the spill immediately if safe to do so.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with detergent and much water. Absorb wash liquid with absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection.
See section 13 for disposal.

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♣ SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. Specific end use(s)

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Personal exposure limits

To our knowledge not established for the active ingredient in this product.

		Year	
Propane-1,2-diol	AIHA (USA) WEEL	2015	10 mg/m ³
	MAK (Germany)	2014	Cannot be established at present
	HSE (UK) WEL	2011	8-hr TWA
			150 ppm (474 mg/m ³), total (vapour and particulates) 10 mg/m ³ (particulates)
Toluene	ACGIH (USA) TLV	2015	TWA 20 ppm (75 mg/m ³)

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		BEI
OSHA (USA) PEL	2015	TWA 200 ppm CEILING 300 ppm 10 Min. peak per 8-hr shift: 500 ppm
EU, 2000/39/EC as amended	2009	8-hr TWA 50 ppm (192 mg/m ³) Peak level 100 ppm (384 mg/m ³); max. duration 15 min. Skin notation
Germany, MAK	2014	TWA 50 ppm (190 mg/m ³) Peak level 200 ppm (760 mg/m ³) Skin notation; BAT
HSE (UK) WEL	2011	8-hr TWA 50 ppm (191 mg/m ³) STEL 100 ppm (384 mg/m ³); 15-minute reference period Skin notation

However, personal exposure limits defined by local regulations may exist and must be observed.

Sulfentrazone

DNEL, systemic	0.014 mg/kg bw/day
PNEC, aquatic	1.9 µg/l

Propane-1,2-diol

DNEL, inhalation, systemic	183 mg/m ³
DNEL, inhalation, local	10 mg/m ³
PNEC, fresh water	260 mg/l
PNEC, marine water	26 mg/l

Toluene

DNEL, dermal	384 mg/kg bw/day
DNEL, inhalation	192 mg/m ³
PNEC, aquatic environment	0.68 mg/l

- 8.2. **Exposure controls** When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

The product does not automatically present an airborne exposure concern when handled carefully, but in the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.

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Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection. It is recommended to limit the amount of work to be done manually.



Eye protection

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

♣ SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance	Off-white liquid
Odour	Faint smell of alcohol
Odour threshold	Not determined
pH	5.3 - 6.0
Melting point/freezing point	123°C
Initial boiling point and boiling range	Not determined
Flash point	> 94°C (Tag closed cup)
Evaporation rate	Not determined
Flammability (solid/gas)	Not applicable (liquid)
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Sulfentrazone : 1.1×10^{-7} Pa
Vapour density	Not determined
Relative density	1.206 at 20°C
Solubility(ies)	Solubility of sulfentrazone in acetonitrile 18.6% w/w water 400 g/l
Partition coefficient n-octanol/water	Sulfentrazone : $\log K_{ow} = 1.49$ at pH 5
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties.....	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Miscibility	The product is dispersible in water.
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♣ SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	To our knowledge, the product has no special reactivities.
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- 10.2. **Chemical stability** The product is stable during normal handling and storage at ambient temperatures.
- 10.3. **Possibility of hazardous reactions** None known.
- 10.4. **Conditions to avoid** Heating of the product will evolve harmful and irritant vapours.
- 10.5. **Incompatible materials** None known.
- 10.6. **Hazardous decomposition products** See subsection 5.2.

♣ SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. **Information on toxicological effects** * = Based on available data, the classification criteria are not met.

Product

- Acute toxicity The product is not considered as harmful by single exposures. * The acute toxicity is measured as:
- Route(s) of entry - ingestion LD₅₀, oral, rat: 2084 mg/kg
- skin LD₅₀, dermal, rabbit: > 2000 mg/kg
- inhalation LC₅₀, inhalation, rat: > 2.72 mg/l/4 h
- Skin corrosion/irritation Minimally irritating to skin. *
- Serious eye damage/irritation Not irritating to eyes. *
- Respiratory or skin sensitisation ... Did not cause skin sensitisation in laboratory animals. *
- Germ cell mutagenicity The product contains no ingredients known to be mutagenic. *
- Carcinogenicity The product contains no ingredients known to be carcinogenic. *
- Reproductive toxicity Case studies on toluene exposure of pregnant women provide evidence of developmental toxicity and increased risk for late spontaneous abortions at inhalation dose level 88 ppm (330 mg/m³).
- STOT – single exposure To our knowledge, no specific effects have been observed after single exposure. *
- STOT – repeated exposure The following was measured on the active ingredient **sulfentrazone**:
Target organs: nervous system and development of offspring
LOAEL: 33 mg/kg bw/day in a 2 generation development study, based on decreased body weight of offspring. *
- Aspiration hazard The product does not present an aspiration pneumonia hazard. *
- Symptoms and effects, acute and delayed None known

Sulfentrazone

- Toxicokinetics, metabolism and distribution Sulfentrazone is rapidly absorbed after oral administration and nearly completely excreted within 72 hours. There is no evidence of accumulation.

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Acute toxicity		The substance is not considered as harmful. * The acute toxicity of the substance is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 2689 mg/kg
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg
	- inhalation	LC ₅₀ , inhalation, rat: > 4.13 mg/l/4 h
Skin corrosion/irritation		Not irritating to skin. *
Serious eye damage/irritation		Mildly irritating to eyes. *
Respiratory or skin sensitisation ...		Not sensitising to guinea pig. *

Toluene

Acute toxicity		The substance is not considered as harmful by single exposure. * The acute toxicity is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: 5580 mg/kg (method EU guideline B1)
	- skin	LD ₅₀ , dermal, rat: 12400 mg/kg
	- inhalation	LC ₅₀ , inhalation, rat: 28.1 mg/l/4 h (method EU guideline B2)
Skin corrosion/irritation		Irritating to skin (several studies).
Serious eye damage/irritation		Slightly irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...		Not a skin sensitizer (method EU guideline B6). To our knowledge, no indications of respiratory sensitisation have been reported. *

♣ SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** The product is very toxic to algae and aquatic plants. It is considered as non-toxic to fish, aquatic invertebrates, soil micro- and macro-organisms, birds and insects.

The following has been measured on the active ingredient **sulfentrazone**:

- Fish	Rainbow trout (<i>Oncorhynchus mykiss</i>)	96 h-LC ₅₀ : > 120 mg/l 99-day NOAEC: 2.95 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48 h-LC ₅₀ : 60.4 mg/l 21-day NOAEC: 0.2 mg/l
- Algae	Green algae (<i>Pseudokirchneriella subcapitata</i>)	120-h EC ₅₀ : 0.031 mg/l
	Diatoms (<i>Navivula pelliculosa</i>)	120-h EC ₅₀ : 0.042 mg/l
- Plants	Duckweed (<i>Lemna gibba</i>)	14-day EC ₅₀ : 0.0288 mg/l 14-day NOAEL: 0.019 mg/l
- Birds	Mallard duck (<i>Anas platyrhynchos</i>)	LD ₅₀ : > 5620 mg/kg
- Bees	Honey bees (<i>Apis mellifera</i>)	LD ₅₀ , acute oral: > 25 µg/bee LD ₅₀ , contact: > 200 µg/bee

- 12.2. **Persistence and degradability** **Sulfentrazone** is not readily biodegradable. Primary degradation half-

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lives in the environment are usually around 18 months. It is persistent in soil.

The product contains small amounts of other ingredients which are not readily biodegradable and may not be degradable in a waste water treatment plant.

- 12.3. **Bioaccumulative potential** See section 9 for octanol-water partition coefficient.
- Bioaccumulation is not expected for **sulfentrazone**.
- 12.4. **Mobility in soil** **Sulfentrazone** has a potential for being mobile in the environment.
- 12.5. **Results of PBT and vPvB assessment** None of the ingredients meets the criteria for being PBT or vPvB.
- 12.6. **Other adverse effects** Other relevant hazardous effects in the environment are not known.

♣ SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. **Waste treatment methods** Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.
- Disposal of waste and packagings must always be in accordance with all applicable local regulations.
- Disposal of product According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.
- Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
- Disposal of packaging It is recommended to consider possible ways of disposal in the following order:
1. Reuse or recycling should first be considered. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

♣ SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

- 14.1. **UN number** 3082

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- 14.2. **UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (sulfentrazone)
- 14.3. **Transport hazard class(es)** 9
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** Marine pollutant
- 14.6. **Special precautions for user** Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** The product is not transported in bulk by ship.

♣ SECTION 15: REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture** Seveso category (Dir. 2012/18/EU): dangerous for the environment.
The employer shall assess any risks to the safety or health and any possible effect on the pregnancies or breastfeeding of workers and decide what measures should be taken (Dir. 92/85/EEC).
Young people under the age of 18 are not allowed to work with the product.
- 15.2. **Chemical safety assessment** A chemical safety assessment is not required to be included for this product.

♣ SECTION 16: OTHER INFORMATION

- Relevant changes in the safety data sheet Numerous changes have been made to adapt the format of the safety data sheet, but these do not concern new information on hazardous properties.
- List of abbreviations ACGIH American Conference of Governmental Industrial Hygienists
AIHA American Industrial Hygiene Association
BAT Biologische Arbeitsstoff-Toleranzwert
BEI Biological Exposure Index
CAS Chemical Abstracts Service
Dir. Directive
DNEL Derived No Effect Level
EC European Community
E_rC₅₀ 50% Effect Concentration based on growth
EINECS European INventory of Existing Commercial Chemical Substances
GHS Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
HSE Health & Safety Executive, UK
IBC International Bulk Chemical code
IUPAC International Union of Pure and Applied Chemistry
LC₅₀ 50% Lethal Concentration
LD₅₀ 50% Lethal Dose

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LOAEL	Lowest Observed Adverse Effect Level
MAK	Maximale Arbeitsplatz-Konzentration
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative, Toxic
PEL	Personal Exposure Limit
PNEC	Predicted No Effect Concentration
Reg.	Regulation
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TWA	Time Weighted Average
vPvB	very Persistent, very Bioaccumulative
WEEL	Workplace Environmental Exposure Level
WEL	Workplace Exposure Limit
WHO	World Health Organisation

References Data measured on this product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification Calculation rules

Used hazard statements
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH401 To avoid risks to human health and the environment, comply with the instructions of use.

Advice on training This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB