

Product code	-	Page 1 of 14
Product name	COLZOR UNO	
		July 2019
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes 22.02.2018

SAFETY DATA SHEET Colzor Uno

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

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

Colzor Uno 1.1. Product identifier

Contains dimethachlor and hydrocarbons, C10-C13,

aromatics, < 1% naphthalene

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

FMC Agricultural Solutions A/S

Thyborønvej 78 DK-7673 Harboøre

Denmark

SDS.Ronland@fmc.com

1.4. Emergency telephone number

Medical emergencies:

Luxembourg: +352 8002 5500 Austria: +43 1 406 43 43 Netherlands: +31 30 274 88 88 Belgium: +32 70 245 245 Norway: +47 22 591300 Bulgaria: +359 2 9154 409 Poland: +48 22 619 66 54 Cyprus: 1401

+48 22 619 08 97 Czech Republic: +420 224 919 293

Portugal: 808 250 250 (in Portugal only) +420 224 915 402

Denmark: +45 82 12 12 12 +351 21 330 3284 England and Wales: 111 Romania: +40 21318 3606 Scotland: +8454 24 24 24 Estonia: +372 7943500 Slovakia: +421 2 54 77 4 166 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Slovenia: +386 41 650 500

South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) Greece: 30 210 77 93 777

Spain: +34 91 562 04 20 Hungary: +36 80 20 11 99 Sweden: +46 08-331231 Ireland (Republic): +353 1 837 9964

Italy: +39 02 6610 1029 112 Switzerland: 145 Latvia: +371 670 42 473 Turkey: 114 112

U.S.A. & Canada: +1 800 / 331 3148 Lithuania: +370 523 62052

All other countries: +1 651 / 632 6793 (Collect) +370 687 53378

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)

All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or

mixture

Skin irritation: Category 2 (H315) Sensitisation – skin: Category 1 (H317) Aspiration toxicity: Category 1 (H304)

Hazards to the aquatic environment, acute: Category 1 (H400)

chronic: Category 1 (H410)

properties.

Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Colzor Uno

Contains dimethachlor and hydrocarbons, C10-C13, aromatics, <1%

naphthalene

Hazard pictograms (GHS07, GHS08, GHS09)







Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Supplementary hazard statements

EUH401 To avoid risks to human health and the environment, comply with the

instructions of use.

Precautionary statements

P261 Avoid breathing vapours or spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P501 Dispose of contents/container as hazardous waste.

or vPvB.

***** SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

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32	Mixtures	See section 16 for full text of hazard statements.
J.4.	MIXUI CS	See section to for full text of hazard statements.

Active ingredient

Dimethachlor Content: 47.6% by weight

CAS no. 50563-36-5

ISO name/EU name Dimethachlor
EC no. (EINECS no.) 256-625-6
EU index no. 616-031-00-3
Molecular weight 255.7

Classification of the ingredient Acute oral toxicity: Category 4 (H302)

Sensitisation – skin: Category 1A (H317)

Hazards to the aquatic environment, acute: Category 1 (H400)

chronic: Category 1 (H410)

Reportable ingredients	Content (% w/w)	CAS no.	EC no.	Classification
Hydrocarbons, C10-C13, aromatics, < 1% naphthalene Reg. no. 01-2119451097-39	25 - 30		922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)
Cyclohexanone Reg. no. 01-2119453616-35	10 - 20	108-94-1	EINECS no.: 203-631-1	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)
Isobutanol Reg. no. 01-2119484609-23	1 - 3	78-83-1	EINECS no.: 201-148-0	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)
Calcium dodecylbenzenesulphonate	1 – 2.5	26264-06-2	EINECS no.: 247-557-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

♣ 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 any symptom 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 develops.

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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

Possibly skin irritation and allergic reactions

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.

The product contains petroleum distillates which may pose an aspiration pneumonia hazard.

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, nitrogen oxides, sulphur dioxide, carbon monoxide, carbon dioxide and various chlorinated organic 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. Keep unprotected persons away from the spill area. Avoid and reduce formation of vapour or mist as much as possible.

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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.

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.

Inhalation of vapours of the product can cause lowered consciousness, which increases the risks of operating machinery and driving.

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.

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7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage. Protect against cold and extreme heat. Recommended storage

temperature 10 - 35°C.

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

dimethachlor in this product. A personal exposure limit of 5 mg/m³

(TWA) is recommended by the manufacturer.

		Year	
Cyclo-	ACGIH (USA) TLV	2015	TWA 20 ppm
hexanone			STEL 50 ppm
			Skin notation; BEI
	OSHA (USA) PEL	2015	TWA 50 ppm (200 mg/m^3)
	EU, 2000/39/EC	2017	8-hr TWA 10 ppm (40.8 mg/m ³)
	as amended		Peak level 20 ppm (81.6 mg/m ³); max. duration 15 min.
			Skin notation
	Germany, MAK	2014	Skin notation; EKA
	HSE (UK) WEL	2011	8-hr TWA 10 ppm (41 mg/m ³)
			STEL 20 ppm (82 mg/m ³); 15-minute reference period
			Skin notation: BMGV

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

Dimethachlor

DNEL Not established

The EFSA has established an AOEL of 0.1 mg/kg bw/day

PNEC, aquatic environment 46 ng/l

Aromatic hydrocarbons

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Cyclohexanone

 DNEL, dermal
 10 mg/kg bw/day

 DNEL, inhalation
 100 mg/m³

 PNEC, aquatic
 0.0329 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 nonhazardous 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

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.



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. Generally, however, the use of protective gloves will give only partial protection against dermal exposure. Small tears in the gloves and cross-contamination can easily occur. It is recommended to limit the work to be done manually and to change the gloves frequently.



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 Yellow to brown liquid
Odour Of aromatic hydrocarbons
Not determined

Odour threshold Not determined

> 125°C

Melting point/freezing point Not determined

Initial boiling point and boiling range

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Evaporation rate (Butyl acetate = 1)

Aromatic hydrocarbons : < 0.01 **Cyclohexanone** : 0.3

Flammability (solid/gas) Not applicable (liquid)

Upper/lower flammability or Aromatic hydrocarbons : $0.6 - 7.0 \text{ vol}\% \ (\approx 0.6 - 7.0 \text{ kPa})$

explosive limits Cyclohexanone : $1 - 9.4 \text{ vol}\% \ (\approx 1 - 9.4 \text{ kPa})$

Vapour density (Air = 1)

Aromatic hydrocarbons : > 1 **Cyclohexanone** : 3.4

Relative density Not determined

Density. 1.04 - 1.08 g/ml

Solubility(ies) Not available

Partition coefficient n-octanol/water **Dimethachlor** : $\log K_{ow} = 2.17$ at 25°C

Aromatic hydrocarbons: some of the main components have log

 $K_{ow} = 4.0 - 4.4$ at 25°C by model calculation

Cyclohexanone : $\log K_{ow} = 0.86$ at 25°C

9.2. Other information

Miscibility The product is dispersible in water.

*** SECTION 10: STABILITY AND REACTIVITY**

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.

<u>Product</u>

acute toxicity is measured as:

Route(s) of entry - ingestion LD_{50} , oral, rat: > 2000 mg/kg

- skin LD_{50} , dermal, rat: > 4000 mg/kg

- inhalation LC₅₀, inhalation, rat: > 20 mg/l/4 h

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Skin corrosion/irritation	Irritating to skin. May cause skin dryness.		
Serious eye damage/irritation	Not irritating to eyes.		
Respiratory or skin sensitisation	Sensitising (method OECD 406).		
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *		
Carcinogenicity	The product contains no ingredients known to be carcinogenic. *		
Reproductive toxicity	The product contains no ingredients known to have adverse effects on reproduction. *		
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *		
STOT – repeated exposure	The following has been measured on the active ingredient dimethachlor: Target organ: liver NOEL: 30 ppm (2.21 mg/kg bw/day) in a 90-day rat study (method OECD 408) based on increased liver weight and increased plasma total protein and globulin.		
Aspiration hazard	The product presents an aspiration hazard.		
Symptoms and effects, acute and delayed	Possibly skin irritation and allergic reactions.		
<u>Dimethachlor</u> Toxicokinetics, metabolism and distribution	After oral intake, dimethachlor is rapidly absorbed and widely distributed in the body. It is almost completely metabolised. It is excreted with half-lives of typically 2 - 3 weeks. There is no evidence of accumulation.		
Acute toxicity	Dimethachlor is harmful by ingestion. It is not considered harmful by skin contact or inhalation. The acute toxicity is measured as:		
Route(s) of entry - ingestion	LD ₅₀ , oral, rat: 1600 mg/kg		
- skin	$LD_{50},$ dermal, rat: >2000 mg/kg (method OECD 402) *		
- inhalation	LC_{50} , inhalation, rat: > 4.45 mg/l/4 h (method OECD 403) *		
Skin corrosion/irritation	Mildly to moderately irritating to skin (method OECD 404). *		
Serious eye damage/irritation	Slightly irritating to eyes (method OECD 405). *		
Respiratory or skin sensitisation	Skin sensitizer (method OECD 406).		
Hydrocarbons, C10-C13, aromatics Acute toxicity	The substance is not considered as harmful. * The acute toxicity as measured on a similar product is:		

 LD_{50} , oral, rat: > 5000 mg/kg (method OECD 401)

 $LD_{50},\,dermal,\,rat:>2000\;mg/kg\;(method\;OECD\;402)$

Route(s) of entry

- ingestion

- skin

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- inhalation	LC ₅₀ , inhalation, rat: > 4.7 mg/l (method OECD 403)		
Skin corrosion/irritation	Can cause skin dryness (measured on similar products; method OECD 404).		
Serious eye damage/irritation	May cause mild, short-lasting discomfort to eyes (measured on similar products; method OECD 405). *		
Respiratory or skin sensitisation	Not expected to cause respiratory or skin sensitisation (measured on similar products; method OECD 406). *		
Aspiration hazard	Aromatic hydrocarbons present an aspiration hazard.		
<u>Cyclohexanone</u> Toxicokinetics, metabolism and distribution	After oral intake, cyclohexanone is readily absorbed and widely distributed in the body. It is extensively metabolised to natural body constituents and partially taken up in the organism.		
Acute toxicity	Cyclohexanone is harmful by inhalation. It may have harmful effects by ingestion and skin contact as well. Study results for inhalation toxicity are divergent. The acute toxicity is measured as:		
Route(s) of entry - ingestion	LD ₅₀ , oral, rat: 1820 mg/kg (average of 6 study results)		
- skin	LD ₅₀ , dermal, rabbit: 950 mg/kg (average of 5 study results)		
- inhalation	LC ₅₀ , inhalation, rat: 3 - 30 mg/l/4 h		
Skin corrosion/irritation	Cyclohexanone has irritating properties to skin as has been found in several studies. It is not clear if the classification criteria are met.		
Serious eye damage/irritation	Cyclohexanone has irritating properties to eyes as has been found in several studies. It is not clear if the classification criteria are met.		
Respiratory or skin sensitisation	To our knowledge, no indications of allergenic effects have been reported. Negative results were found in a number of tests. *		
<u>Isobutanol</u> Toxicokinetcs, metabolism and distribution	Isobutanol is rapidly absorbed following oral administration or inhalation exposure. Isobutanol is metabolised to isobutyraldehyde and isobutyric acid.		
Acute toxicity	Isobutanol is not considered as harmful. * The acute toxicity is measured as:		
Route(s) of entry - ingestion	LD_{50} , oral, rat (male): > 2830 mg/kg (method OECD 401)		
	LD ₅₀ , oral, rat (female): 3350 mg/kg (method OECD 401)		
- skin	LD_{50} , dermal, rabbit: $> 2000 \text{ mg/kg}$ (method OECD 402)		
- inhalation	LC_{50} , inhalation, rat: > 18.12 mg/l/4 h (method 40 CFR 798.1150)		
Skin corrosion/irritation	Not irritating to rabbit skin (method OECD 404).		
Serious eye damage/irritation	Severely irritating to eyes (method OECD 405).		

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Respiratory or skin sensitisation ... Not sensitising to guinea pigs (method OECD 406). To our

knowledge, no indications of allergenic properties have been recorded.

*

Calcium dodecylbenzenesulphonate

Acute toxicity The substance is not considered as harmful by skin contact, ingestion

and inhalation. * The acute toxicity is measured as:

Route(s) of entry - ingestion LD₅₀, oral, rat: 4000 mg/kg

- skin LD_{50} , dermal, rat: not available - inhalation LC_{50} , inhalation, rat: not available

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation Irritating to eyes with the potential to cause permanent eye damage.

SECTION 12: ECOLOGICAL INFORMATION

harmful to all plants. It is toxic to algae, but it is considered as non-toxic to daphnids, fish, soil micro- and macroorganisms, birds and

insects.

The ecotoxicity measured on the product is:

12.2. **Persistence and degradability** **Dimethachlor** is biodegradable, but does not meet the criteria for

being readily biodegradable. Primary degradation half-lives in soil are one to two weeks. Degradation products are degraded slower.

Aromatic hydrocarbons are readily biodegradable as measured according to OECD guidelines. However, they are not always rapidly degraded in the environment, but are expected to be degraded at a moderate rate, depending on circumstances.

The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

12.3. **Bioaccumulative potential** See section 9 for octanol-water partition coefficients.

For **dimethachlor**, bioaccumulation is not to be expected based on its

solubility in water.

Aromatic hydrocarbons have a potential to bioaccumulate if continuous exposure is maintained. Most components can be metabolised by many organisms. Bioaccumulation factors (BCFs) of some of the main components are 1200 - 3200 by model calculation.

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Aromatic hydrocarbons are not mobile in the environment, but are volatile and will evaporate to the air if released onto water or on the surface of soil. They float and can migrate to sediment.

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. Reuse is prohibited except for the authorisation holder. 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

14.2. **UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (dimethachlor and alkyl(C3-C6)benzenes)

14.3. Transport hazard class(es) 9

14.4. Packing group III

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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 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 Young Worker Directive (94/33/EC) prohibits people under the

age of 18 to work with this 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 involve new information concerning

hazardous properties.

List of abbreviations ACGIH American Conference of Governmental Industrial

Hygienists

AOEL Acceptable Operator Exposure Level

BEI Biological Exposure Index

BMGV Biological Monitoring Guidance Value

CAS Chemical Abstracts Service

Dir. Directive

DNEL Derived No Effect Level EC European Community EC₅₀ 50% Effect Concentration

E_rC₅₀ 50% Effect Concentration based on growth

EFSA European Food Safety Authority

EINECS European INventory of Existing Commercial Chemical

Substances

EKA Expositionsäquivalent für Krebserzeugende Arbeitsstoffe

GHS Globally Harmonized classification and labelling

System of chemicals, Fifth revised edition 2013

HSE Health & Safety Executive, UK IBC International Bulk Chemical code

ISO International Organisation for Standardization IUPAC International Union of Pure and Applied Chemistry

LC₅₀ 50% Lethal Concentration

LD₅₀ 50% Lethal Dose

MAK Maximale Arbeitspaltz-Konzentration

MARPOL Set of rules from the International Maritime Organisation

(IMO) for prevention of sea pollution

NOEL No Observed Effect Level n.o.s. Not otherwise specified

OECD Organisation for Economic Cooperation and Development

OSHA Occupational Safety and Health Administration

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	PBT PEL PNEC Reg. STEL STOT TLV TWA vPvB WEL WHO	Persistent, Bioaccumulative, Toxic Personal Exposure Limit Predicted No Effect Concentration Regulation Short-Term Exposure Limit Specific Target Organ Toxicity Threshold Limit Value Time Weighted Average very Persistent, very Bioaccumulative Workplace Exposure Level World Health Organisation	
References	Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.		
Method for classification	Test data		
Used hazard statements	H226 H302 H304 H315 H317 H318 H335 H336 H400 H410 H411 EUH066 EUH401	Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness and cracking. 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 Agricultural Solutions A/S / GHB