

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Product code	7063	Page 1 of 13
Product name	ROVRAL FLO	
		July 2019
		Supersedes August 2017

# SAFETY DATA SHEET Rovral Flo

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** ...... **Rovral Flo** 

Contains iprodione

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

Can be used as fungicide only. advised against .....

1.3. Details of the supplier of the safety

data sheet

FMC Agricultural Solutions A/S

Thyborønvei 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

Czech Republic: +420 224 919 293

+48 22 619 08 97 Portugal: 808 250 250 (in Portugal only) +420 224 915 402

Denmark: +45 82 12 12 12 +351 21 330 3284 Romania: +40 21318 3606 England and Wales: 111

Scotland: +8454 24 24 24 Estonia: +372 7943500 Slovakia: +421 2 54 77 4 166 France: +33 (0) 1 45 42 59 59 Slovenia: +386 41 650 500 Finland: +358 9 471 977

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 Latvia: +371 670 42 473 Switzerland: 145 112 Turkey: 114

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

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

Carcinogenicity: Category 2 (H351)

mixture

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

chronic: Category 1 (H410)

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier ...... Rovral Flo

Contains iprodione

Hazard pictograms (GHS08, GHS09)





Signal word ...... Warning

Hazard statements

H351 ...... Suspected of causing cancer.

Supplementary hazard statements

EUH208 ...... Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic

reaction.

instructions of use.

Precautionary statements

P201 ...... Obtain special instructions before use.

understood.

P273 ...... Avoid release to the environment.

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.



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	Active ingredient				
	Iprodione		25% by weight		
	CAS name	1-Imidazol ethyl)-2,4-		de, 3-(3,5-dichlo	rophenyl)-N-(1-methyl-
	CAS no.	36734-19-			
	IUPAC name	3-(3.5-Dic	hlorophenyl)-N	-isopropyl-2.4-di	oxoimidazolidine-
		3-(3,5-Dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine- 1-carboxamide			
	ISO name/EU name	Iprodione			
	EC no. (EINECS no.)	253-178-9			
	EU index no.	616-054-0	0-9		
	Molecular weight	330.2			
	Classification of the ingredient		nicity: Category	2 (H351)	
					Category 1 (H400)
					c: Category 1 (H410)
	Reportable ingredients	Contents	CAS no.	EC no.	Classification
	<u></u>	(% w/w)		(EINECS no.)	
	Dunnana 1 2 4:-1	6	57-55-6	200-338-0	Not classified
	Propane-1,2-diol Reg. no. 01-2119456809-23	0	37-33-0	200-338-0	Not classified
	Reg. 110. 01-2119430609-23				
	2,4,6-Tris(1-phenylethyl)polyoxy-	1	90093-37-1		Eye Irrit. 2 (H319)
	ethylenated phosphates	1	90093-37-1		Lyc IIII. 2 (11319)
	emyrenated phosphates				
	Poly(oxy-1,2-ethanediyl), $\alpha$ -[tris(1-	1	99734-09-5	None	Aquatic Chronic 3 (H412)
	phenylethyl)phenyl]-\omega-hydroxy-	1	77731 07 3	Tione	riquatie Chrome 5 (11112)
	phenylethyl)phenylj-w-nythoxy-				
	1,2-Benzisothiazol-3(2H)-one	Max.	2634-33-5	220-120-9	Acute Tox. 4 (H302)
	-, ()	0.006			Skin Irrit 2 (H315)
		0.000			Eye Dam. 1 (H318)
					Skin Sens. 1A (H317)
					Aquatic Acute 1 (H400)
SEC	TION 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.
	Ingestion	Let the exposed person rinse mouth and drink several glasses of water



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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

In animal tests on iprodione, the main symptom was reduced activity.

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

5.2. 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, carbon monoxide, carbon dioxide, phosphorus pentoxide 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.

6.2. Environmental precautions .......

Contain the spill to prevent any further contamination of surface, soil



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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, attapulgite, bentonite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto 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.

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.

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

product than propane-1,2-diol

 $10 \text{ mg/m}^3$ 

Year 2015

**Propane-** AIHA (USA) WEEL **1,2-diol** MAK (Germany)

MAK (Germany) 2014 Cannot be established at present

HSE (UK) WEL 2011 8-hr TWA

150 ppm (474 mg/m<sup>3</sup>), total (vapour and particulates)

10 mg/m<sup>3</sup> (particulates)

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

**Iprodione** 

EFSA has established an AOEL of 0.3 mg/kg bw/day

PNEC, aquatic environment ....... 1.7 μg/l

Propane-1,2-diol

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



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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.



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 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

Melting point/freezing point ........ Not determined Initial boiling point and boiling range Not determined

Upper/lower flammability or

explosive limits ...... Not determined

Vapour pressure ....... **Iprodione** :  $5 \times 10^{-7}$  Pa at  $25^{\circ}$ C

Solubility(ies) ...... Solubility of **iprodione** at 20°C in:

Acetone 520 mg/l hexane 12.2 mg/l water approx. 0.5 mg/l



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9.2. **Other information** 

Miscibility ...... The product is dispersible in water.

#### SECTION 10: STABILITY AND REACTIVITY

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 ...... The product is not considered as harmful by single exposures. \* The

acute toxicity is measured as:

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

- skin  $LD_{50}$ , dermal, rat: > 2000 mg/kg

- inhalation LC<sub>50</sub>, inhalation, rat: > 2.88 mg/l/4 h

Serious eye damage/irritation ...... Not irritating to eyes. \*

Respiratory or skin sensitisation ... Not sensitising. \*

tumours in interstitial cells in testes in rats. Benign and malignant tumours in the liver and slight increase of ovarian luteomas in mice.

reproduction. \*



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			Ju	ıly 2019	
STOT – single exposure		ure	To our knowledge, no specific effects have exposure. *	been observed after single	
		osure	The following has been measured on the active ingredient iprodione: Target organs: liver, reproductive organs and adrenals NOEL: 30.8 (male) - 35.8 (female) mg/kg bw/day in a 90-day rat study based on increase of liver weight.  At higher doses: atrophy of prostate and uterus, vacuolation of adrenals and reduced number of corpora lutea. *		
	Aspiration hazard		The product does not present an aspiration h	hazard. *	
	Symptoms and effects, acute and delayed		In animal tests on iprodione, the main symp	otom was reduced activity.	
			The substance is rapidly absorbed following Elimination is fast and almost complete afte indication of bioaccumulation.		
	Acute toxicity		The substance may be slightly harmful by ingestion, but is not considered harmful by skin contact or inhalation. * The acute toxicity is measured as:		
	Route(s) of entry	- ingestion	LD <sub>50</sub> , oral, rat: 1500 - 3700 mg/kg		
		- skin	LD50, dermal, rat: $> 2500$ mg/kg *		
		- inhalation	$LC_{50},$ inhalation, rat: $>5.16$ mg/l/4 h $^{\ast}$		
	Skin corrosion/irritation  Serious eye damage/irritation		Not irritating to skin. *		
			Slightly irritating to eyes. *		
	Respiratory or skin sensitisation		Not a skin sensitizer. *		
Poly( $oxy-1,2$ -ethanediyl), $\alpha$ -[ $tris(1$ -phenylethyl)phenyl]- $\omega$ -hydroxy-					
	Acute toxicity	•	The substance is not considered as harmful and inhalation. * The acute toxicity is estim similar product) as:	•	
	Route(s) of entry	- ingestion	$LD_{50}$ , oral, rat: $> 5000 \text{ mg/kg}$		
		- skin	LD <sub>50</sub> , dermal, rat: not available		
		- inhalation	LC <sub>50</sub> , inhalation, rat: not available		
Skin corrosion/irritation		on	Not irritating to rabbit skin. *		
Serious eye damage/irritation		rritation	Not irritating to rabbit eyes. *		

No information available. \*

Ames test negative. \*

Respiratory or skin sensitisation ...

Germ cell mutagenicity .....



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1,2-Benzisothiazol-3(2H)-one

Acute toxicity ...... The substance is harmful by ingestion.

Route(s) of entry - ingestion LD<sub>50</sub>, oral, rat (male): 670 mg/kg

LD<sub>50</sub>, oral, rat (female): 784 mg/kg

(method OPPTS 870.1100, measured on 73% solution)

- skin LD<sub>50</sub>, dermal, rat: > 2000 mg/kg \*

(method OPPTS 870.1200, measured on 73% solution)

- inhalation LC<sub>50</sub>, inhalation, rat: not available

Serious eye damage/irritation ...... Severely irritating to eyes (method OPPTS 870.2400).

Respiratory or skin sensitisation ... Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600).

The substance appears to be significantly more sensitising to humans.

# SECTION 12: ECOLOGICAL INFORMATION

birds, soil micro- and macroorganisms, insects and mammals.

The following has been measured on the product:

96-h LC<sub>50</sub>, fish: 24 mg/l

48-h EC<sub>50</sub>, daphnids:  $\ge 0.46$  mg/l 72-h E<sub>r</sub>C<sub>50</sub>, algae: 12.8 mg/l

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

readily biodegradable. It undergoes degradation in the environment and in waste water treatment plants. In aerobic soil and water it degrades with primary half-lives of a few weeks to a few months. Degradation products are not considered as harmful to soil dwelling or

aquatic organisms.

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 n-octanol/water partition coefficient.

**Iprodione** has a low bioaccumulation potential. Bioconcentration factor was determined to be 70 for whole fish (bluegill sunfish).

12.4. **Mobility in soil** ...... **Iprodione** is of low to medium mobility in soil. It is absorbed onto

soil particles.

12.5. Results of PBT and vPvB



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#### SECTION 13: DISPOSAL CONSIDERATIONS

12.6. Other adverse effects .....

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.

Other relevant hazardous effects in the environment are not known.

possibilities for reuse or reprocessing should first be considered. If this is not possible, 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 by 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

14.2. **UN proper shipping name** ........ Environmentally hazardous substance, liquid, n.o.s. (iprodione)

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.



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

The product is not transported in bulk by ship.

#### SECTION 15: REGULATORY INFORMATION

code .....

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).

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 Minor corrections only. sheet .....

List of abbreviations ...... **AIHA** American Industrial Hygiene Association

**AOEL** Acceptable Operator Exposure Level

CAS Chemical Abstracts Service

Dir. Directive

**DNEL** Derived No Effect Level EC **European Community**  $EC_{50}$ 50% Effect Concentration

50% Effect Concentration based on growth  $E_rC_{50}$ 

**EFSA European Food Safety Authority** 

**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

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

 $LC_{50}$ 50% Lethal Concentration

 $LD_{50}$ 50% Lethal Dose

Maximale Arbeitspaltz-Konzentration MAK

MARPOL Set of rules from the International Maritime Organisation

(IMO) for prevention of sea pollution

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

**OPPTS** Office for Prevention, Pesticides and Toxic Substances

Persistent, Bioaccumulative, Toxic **PBT PNEC** Predicted No Effect Concentration

Registration, or Reg.



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	STOT TWA vPvB WEEL WEL WHO	Regulation Specific Target Organ Toxicity Time Weighted Average very Persistent, very Bioaccumulative Workplace Environmental Exposure Level Workplace Exposure Limit 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	Carcinogenicity: calculation rules Hazards to the aquatic environment, acute: test data chronic: calculation rules		
Used hazard statements	H302 H315 H317 H318 H319 H351 H400 H410 H412 EUH208	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. To avoid risks to human health and the environment, comply with the instructions of use.	
Advice on training		erial should only be used by persons who are made aware of lous properties and have been instructed in the required ecautions.	

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