

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	-	Page 1 of 12
Product name	MOJANTE	
		October 2018
Safety data sheet according to EU Reg. 1907/2006 as amended Supersedes March 201		Supersedes March 2016

SAFETY DATA SHEET MOJANTE

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

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

MOJANTE 1.1. Product identifier

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

advised against Can be used as adjuvant for plant protection products only.

1.3. Details of the supplier of the safety data sheet

CHEMINOVA A/S, a subsidiary of FMC Corporation

Contains isotridecanol, ethoxylated and formaldehyde

Thyborønvej 78 DK-7673 Harboøre

Denmark

SDS.Ronland@fmc.com

1.4. Emergency telephone number

Medical emergencies:

Austria: +43 1 406 43 43 Norway: +47 22 591300 Belgium: +32 70 245 245 Poland: +48 22 619 66 54 Bulgaria: +359 2 9154 409 +48 22 619 08 97

Cyprus: 1401

Czech Republic: +420 224 919 293

+420 224 915 402

Romania: +40 21318 3606 Scotland: +8454 24 24 24 Denmark: +45 82 12 12 12 Slovakia: +421 2 54 77 4 166 England and Wales: 111 Slovenia: +386 41 650 500 France: +33 (0) 1 45 42 59 59 South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) Finland: +358 9 471 977

Spain: +34 91 562 04 20 Greece: 30 210 77 93 777 Sweden: +46 08-331231 Hungary: +36 80 20 11 99 112

Ireland (Republic): +353 1 837 9964 Switzerland: 145 Italy: +39 02 6610 1029 Turkey: 114 Lithuania: +370 523 62052

U.S.A. & Canada: +1 800 / 331 3148 (ProPharma) +370 687 53378 All other countries: +1 651 / 632 6793 (ProPharma - Collect) Luxembourg: +352 8002 5500

Netherlands: +31 30 274 88 88

For fire, leak, spill or other accident emergencies:

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

Portugal: 808 250 143 (in Portugal only) +351 21 330 3284

All other countries: +1 703 / 741 5970 (CHEMTREC - Collect)



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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or Eye damage: Category 1 (H318)

mixture Carcinogenicity: Category 1B (H350)

Health hazards The product contains formaldehyde which can cause cancer. The

product has irritating properties.

Environmental hazards Serious hazards in the aquatic environment are not expected.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Mojante

Contains isotridecanol, ethoxylated and formaldehyde

Hazard pictograms (GHS05, GHS08)





Signal word Danger

Hazard statements

H318 Causes serious eye damage.

H350 May cause cancer.

Precautionary statements

P201 Obtain special instructions before use.

understood.

P280 Wear protective gloves, protective clothing and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container as hazardous waste.

♣ 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.

<u>Reportable ingredients</u> Content CAS no. EC no. Classification

(% w/w) (EINECS no.)

Isotridecanol, ethoxylated 20 9043-30-5 Acute Tox. 4 (H302)

Eye Dam. 1 (H318)



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Formaldehyde 0.2 50-00-0 200-001-08 Acute Tox. 3 (H301)

Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Muta 2 (H341)

Carc. 1B (H350)

♣ SECTION 4: FIRST AID MEASURES

4.1.	Description of first aid measures	If exposure has occurred, do not wait for symptoms to develop, but immediately start the procedures described below.
	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 flush skin with much water while removing contaminated clothing and footwear. Wash with water and soap. See physician 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 persists.
	Ingestion	Inducing vomiting is not recommended. Rinse mouth and drink water or milk. If vomiting does occur, rinse mouth and drink fluids again. Get medical attention immediately.
4.2.	Most important symptoms and effects, both acute and delayed	Eye irritation.
4.3.	Indication of any immediate medical attention and special	Immediate medical attention is required in case of ingestion.
	treatment needed	It may be helpful to show this safety data sheet to physician.

♣ SECTION 5: FIRE-FIGHTING MEASURES

Notes to physician

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are carbon monoxide and carbon dioxide.

A specific antidote against this substance is not known. Gastric lavage

and/or administration of activated charcoal can be considered.



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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 1 tonne 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 eye protection, chemical resistant clothing, gloves and boots.

Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce mist formation as much as possible.

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 inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay. Transfer to suitable containers. Clean area with strong industrial detergent and much water. 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.



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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 adjuvant, 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. 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 for two years 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. 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 may only be used as adjuvant to plant protection products.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.	1. (Cont	rol	par	ame	ters
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Year

Formaldehyde ACGIH (USA) TLV

2015 Ceiling 0.3 ppm (0.37 mg/m³) Notice of intended change



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OSHA (USA) PEL 2015 TWA 0.75 ppm

Ceiling 2 ppm

See 29 CFR 1910.1048(c)

EU, 2000/39/EC

as amended Germany, MAK 2009 Not established

2014 TWA 0.3 ppm (0.37 mg/m³) Peak level 0.6 ppm (0.74 mg/m³)

HSE (UK) WEL 2011 8-hr TWA 2 ppm (2.5 mg/m³)

STEL: 2 ppm (2.5 mg/m³), 15-minute reference period

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

Formaldehyde

DNEL, inhalation 9 mg/m³

DNEL, dermal 240 mg/kg bw/day

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 face mask, chemical resistant coveralls and gloves.



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 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.



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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 Green liquid

Flammability (solid/gas) Not applicable (liquid)

Upper/ lower flammability or

Density: 1.009 g/ml at 20°C

9.2. Other information

Miscibility The product is dispersible in water.

♣ SECTION 10: STABILITY AND REACTIVITY

10.1.	Reactivity	To our knowledge, the product has no special reactivities.

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 may produce harmful and irritant vapours.



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10.5. Incompatible materials None known.

10.6. **Hazardous decomposition products** See subsection 5.2.

*

ECTION 11: TOXICO	DLOGICAL INF	ORMATION	
Information on toxi	cological effects	* = Based on available data, the classification criteria are not met.	
Product Acute toxicity		The product is not harmful by inhalation, in contact with skin or if swallowed. * However, it should always be treated with the usual ca of handling chemicals. The acute toxicity is measured as:	
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 2000 mg/kg	
	- skin	LD ₅₀ , dermal, rat: not available	
	- inhalation	LC ₅₀ , inhalation, rat: not available	
Skin corrosion/irritat	ion	Not irritating to skin. *	
Serious eye damage/i	irritation	Irritating to eyes.	
Respiratory or skin se	ensitisation	Not expected to be a skin sensitizer. *	
Germ cell mutagenic	ity	In vitro, formaldehyde is able to induce gene mutations and chromosomal aberrations in mammalian cells. In vivo, the genotoxic effects are limited to those cells which are in direct contact with formaldehyde and no effects are observed in distant-site tissues. This is consistent with formaldehyde's high reactivity. In conclusion, formaldehyde is a locally effective mutagen exhibiting only weak effects.	
Carcinogenicity		There is limited evidence of a causal relationship between formaldehyde exposure by inhalation and nasal tumours.	
Reproductive toxicity	у	The product contains no ingredients found to have adverse effects or reproduction. *	
STOT – single expos	ure	To our knowledge, no specific effects have been observed after sing exposure. *	
STOT – repeated exp	oosure	High reactivity and fast metabolic degradation prevent systemic availability of formaldehyde. NOAEC for inhalation was between 1 and 2 ppm (1.2 and 2.4 mg/m Morphological lesions were seen. *	
Aspiration hazards		The product does not present an aspiration pneumonia hazard. *	
Symptoms and effects, acute and delayed		Eye irritation is possible.	



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Respiratory or skin sensitisation ... Formaldehyde was found to be a skin sensitizer in numerous tests on animals (a. o. OECD 406). There is no final conclusion concerning respiratory sensitisation. Findings from detailed clinical evaluations in

humans suggest that it is rare if it exists at all.

♣ SECTION 12: ECOLOGICAL INFORMATION

The product is toxic to fish and daphnids,

The ecotoxicity of the product is measured as:

96-h LC₅₀, fish: 4 – 10 mg/l

48-h EC₅₀, daphnids (*Daphnia magna*): 4.5 mg/l

12.2. Persistence and degradability All ingredients are readily biodegradable.

12.3. Bioaccumulative potential Bioaccumulation is not expected.

12.4. Mobility in soil The product is mobile in soil, but is not stable.

12.5. Results of PBT and vPvB assessment None of the ingredients meets the criteria for being PBT or vPvB.

♣ 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 feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with

flue gas scrubbing.



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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	Not classified as hazardous material for transport
14.2.	UN proper shipping name	Not applicable
14.3.	Transport hazard class(es)	Not applicable
14.4.	Packing group	Not applicable
14.5.	Environmental hazards	May be harmful in the aquatic environment.
14.6.	Special precautions for user	Avoid any unnecessary contact with the product. 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): toxic

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.



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All ingredients are covered by EU chemical legislation.

15.2. **Chemical safety assessment** A chemical safety assessment is not available.

♣ SECTION 16: OTHER INFORMATION

Relevant changes in the safety data sheet	Minor corrections only.		
List of abbreviations	ACGIH	American Conference of Governmental Industrial	
		Hygienists	
	CFR	Code of Federal Regulations	
	DNEL	Derived No Effect Level	
	EC	European Community	
	EC_{50}	50% Effect Concentration	
	GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013	
	HSE	Health & Safety Executive, UK	
	IBC	International Bulk Chemical code	
	LC_{50}	50% Lethal Concentration	
	LD_{50}	50% Lethal Dose	
	MAK	Maximale Arbeitspaltz-Konzentration	
	MARPO	L Set of rules from the International Maritime Organisation	
		(IMO) for prevention of sea pollution	
	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	
	WEL	Workplace Exposure Limit	
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	Eye damage: test data Carcinogenicity: calculation rules		
Used hazard statements	H301	Toxic if swallowed.	
	H302	Harmful if swallowed.	
	H311	Toxic in contact with skin.	
	H314	Causes severe skin burns and eye damage.	
	H317	May cause an allergic skin reaction.	
	H318	Causes serious eye damage.	



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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