

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	_	Page 1 of 11
Product name	ASU 70480I	
		January 2020
Safety data sheet	according to EU Reg. 1907/2006 as amended	Supersedes December 2019

SAFETY DATA SHEET **ASU 704801**

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 **ASU 704801**

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

advised against Can be used as insecticide 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

Czech Republic: +420 224 919 293

+48 22 619 08 97 +420 224 915 402 Portugal: 800 250 250 (in Portugal only)

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** Eye irritation: Category 2 (H319)

mixture Hazards to the aquatic environment, chronic: Category 2 (H411)

Health hazards The product may cause eye irritation.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier ASU 70480I

Hazard pictograms (GHS07, GHS09)





Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Supplementary hazard statement

instructions of use.

Precautionary statements

P280 Wear 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.

P501 Dispose of contents and container as hazardous waste.

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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Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
White mineral oil (petroleum)	78	8042-47-5	232-455-8	None
Alcohols, C12-18, ethoxylated	2	68213-23-0		Acute Tox. 4 (H302) Eve Dam. 1 (H318)

♣ SECTION 4: FIRST AID MEASURES

4.1	Description of first oil 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 a few 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	Eye contact: irritation may occur. Ingestion or inhalation: headache, dizziness, nausea and other effects on the central nervous system.
4.3.	•	Immediate medical attention is required in case of ingestion.
	medical attention and special treatment needed	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 carbon monoxide and carbon dioxide.
5.3.	Advice for firefighters	Use water spray to keep fire-exposed containers cool. Approach fire



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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 selfcontained 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 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 formation of vapour or mist 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. Absorb wash liquid onto suitable inert 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.



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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 agricultural use, 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 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 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

Year

Mineral oil ACGIH (USA) TLV

2015 5 mg/m³, inhalable fraction

mist



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

White mineral oil

PNEC, aquatic environment

160 mg/m³ 220 mg/kg bw/day Not available

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, but can be recommended for handling of diluted product as well.

In cases of incidental high exposure, maximal personal protection may be necessary, such as 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, but it is expected that they will give adequate protection.



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 Liquid (emulsion)
Odour Characteristic



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pH Not determined. The product is not acidic or basic.

Upper/ lower flammability or

Partition coefficient n-octanol/water Not determined

Decomposition temperature Not determined

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 may produce 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

toxicity is estimated as:

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

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



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- inhalation	LC ₅₀ , inhalation, rat: 5 mg/l/4 h
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Eye irritation may occur.
Respiratory or skin sensitisation	Not expected to cause allergic reactions. *
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 found to have adverse effects on reproduction. *
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *
STOT – repeated exposure	No information is available
Aspiration hazards	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	Eye contact: irritation may occur. Ingestion or inhalation: headache, dizziness, nausea and other effects on the central nervous system.
White mineral oil Toxicokinetics, metabolism and distribution	White mineral oil has been used for many decades as a human laxative without doing any harm. It is embedded in the gastrointestinal track and quickly excreted.
Acute toxicity	The substance is not harmful by inhalation, in contact with skin or if swallowed. * The acute toxicity is measured on a similar substance as:
Route(s) of entry - ingestion	LD_{50} , oral, rat: > 5000 mg/kg (method similar to OECD 401)
- skin	LD_{50} , dermal, rat: > 2000 mg/kg (method similar to OECD 401)
- inhalation	LC_{50} , inhalation, rat: > 5 mg/l/4 h (method similar to OECD 403)
Skin corrosion/irritation	Not irritating to skin (method similar to OECD 404). *
Serious eye damage/irritation	Not irritating to eyes (method similar to OECD 405). *
Respiratory or skin sensitisation	Not a skin sensitizer (method similar to OECD 406). *

♣ SECTION 12: ECOLOGICAL INFORMATION



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	- Fish	Rainbow trout (Oncorhynchus mykiss)		96-h LC ₅₀ : 547 mg/l
	- Invertebrates	Daphnids (Daphnia magna)		48-h EC ₅₀ : 1.71 mg/l
	- Algae	Green algae (Scenedesmus subspicatus)		72-h EC_{50} : > 5000 mg/l
	- Earthworms	Eisenia foetida		14 -day LC_{50} : > 1000 mg/kg dry soil
	- Bees	Honeybee (Apis mellifera)		48-h LD $_{50}$, acute oral: > 3814 µg/bee 48-h LD $_{50}$, contact: > 1474 µg/bee
12.2.	.2. Persistence and degradability		White mineral oil is not readily biodegradable. The primary half-life for degradation in soil was found to vary between one and several months.	
12.3.	2.3. Bioaccumulative potential		Bioaccumulation is not expected. Practically all biological organisms are able to eliminate white mineral oil quickly.	
12.4.	4. Mobility in soil		The product is not mobile in soil.	
12.5.	2.5. Results of PBT and vPvB assessment		None of the ingredients meets	the criteria for being PBT or vPvB.
12.6.	2.6. Other adverse effects		Other relevant hazardous effects in the environment are not known.	
CECT	CECTION 12. DICTOCAL CONCIDED ATIONS			

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product

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.	

According to the Waste Framework Directive (2008/98/EC), 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 for the registration 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.



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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

3082 14.1. **UN number** 14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (white mineral oil) 9 14.3. Transport hazard class(es) 14.4. **Packing group** Ш 14.5. Environmental hazards Marine pollutant 14.6. Special precautions for user Avoid any unnecessary contact with the product. Misuse may 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 All ingredients are covered by EU chemical legislation.

15.2. **Chemical safety assessment** A chemical safety assessment is not required to be included for this product.

SECTION 16: OTHER INFORMATION

GHS Globally Harmonized classification and labelling System

of chemicals, Fifth revised edition 2013

IBC International Bulk Chemical codeLC₅₀ 50% Lethal Concentration



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	LD_{50}	50% Lethal Dose
	MARPOL	Set of rules from the International Maritime Organisation
		(IMO) for prevention of sea pollution
	n.o.s.	Not otherwise specified
	OECD	Organisation for Economic Cooperation and Development
	PBT	Persistent, Bioaccumulative, Toxic
	PNEC	Predicted No Effect Concentration
	Reg. STOT	Regulation Specific Target Organ Toxicity
	TLV	Threshold Limit Value
	vPvB	very Persistent, very Bioaccumulative
	WHO	World Health Organisation
	***110	World Health Organisation
References	Data on ingredients are from published literature and can be found several places.	
Method for classification	Eye irritation: calculation rules	
	Hazards to the aquatic environment: test data	
Used hazard statements	H302	Harmful if swallowed.
Cod hazara statements	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.
	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	
C		ous properties and have been instructed in the required
	safety pre-	cautions.

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