

SWORD®

An emulsifiable concentrate formulation containing 240 g/l (22.2% w/v) clodinafop-propargyl.

A foliar acting herbicide for control of grasses in wheat, rye, triticale and durum wheat.

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum Individual Dose (L product/ha)	Maximum number of applications	Latest Time of Application
Wheat, durum wheat	0.25	1 per crop	Before the flag leaf sheath stage (GS 41).
Rye and Triticale	0.25	1 per crop	Before 2 nd node detectable stage (GS 32).

Other Specific Restrictions:

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing clodinafop-propargyl.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Additional Safety Phrases:

Do not contaminate water with the product or its container (Do not clean application equipment near surface water). Avoid contamination via drains from farmyards and roads).

Authorisation Holder & Marketing Company

Nufarm UK Limited
Wyke Lane, Wyke, Bradford, West Yorkshire, BD12 9EJ
United Kingdom

Technical Helpline telephone number +44 (0)1274 694714
24-hour emergency telephone number +44 (0)1274 696603

SHAKE WELL BEFORE USE
PROTECT FROM FROST

1 L

XXXXXXXXXX



Safety Information

DANGER

Harmful if swallowed.

May be fatal if swallowed and enters airways.
May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Do not breathe vapours/spray.

Do not eat, drink or smoke when using this product.

Do NOT induce vomiting.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Repeated exposure may cause skin dryness or cracking.

Contains clodinafop-propargyl. May produce an allergic reaction.
To avoid risk to human health and the environment, comply with the instructions for use.

PCS No 04248

 Nufarm

Grow a better tomorrow

DIRECTIONS FOR USE

RESTRICTIONS

DO NOT spray cereals under-sown with grass or on barley or oats.

DO NOT spray crops which are under stress at the time of application, e.g. weather extremes (drought, water-logging, frost), pest or disease attack or nutrient deficiency.

Avoid spraying if rain is expected within one hour of application as efficacy may be reduced.

Avoid use in mixture or sequence with hormone containing herbicides.

Contract agents should be consulted before using on crops grown for seed.

If SWORD® is applied first, leave 7 days prior to hormone application.

If mecoprop-P or 2,4-DB is applied first, leave 14 days prior to SWORD application.

If MCPA or 2,4-D is applied first, leave 21 days prior to SWORD application.

WEEDS CONTROLLED

Optimum weed control is best achieved when all the grass weeds have emerged and are actively growing under good conditions. If broad-leaved weeds are present it is advised to apply in mixture with a suitable broad-leaved herbicide.

Weed	Weed growth stages controlled
Wild oats	Apply from 1 st leaf unfolded to flag leaf ligule visible.
Rough meadowgrass	Apply from 1 st leaf unfolded to main shoot and 3 tiller stage.
Annual ryegrass Italian ryegrass*	Moderately susceptible from the first leaf unfolded to main shoot and 3 tiller stage.

SWORD may also be used for the control of black-grass as part of a blackgrass management strategy involving mixtures and sequences with herbicides or alternative modes of action.

* For the control of Italian ryegrass always use as part of a weed control programme using other products active against ryegrass.

WEED RESISTANCE

This product contains clodinafop-propargyl which is an ACCase inhibitor also classified by the Herbicide Resistance Action Committee (HRAC) as 'Group A'.

Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass weed control. Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

Do not use SWORD or any other ACCase inhibitor as the sole means of grass weed control in successive crops.

Use grass weed herbicides with different modes of action throughout the cropping rotation.

To reduce the risk of developing resistance, applications should be made to young, actively growing weeds.

Use crop rotation and other cultural control measures to prevent and manage herbicide resistant grass weeds.

Use tank/product mixes or sequences of herbicides with different modes of action within individual crops or successive crops.

Only apply SWORD once per crop and do not use in mixture or sequence with any product containing clodinafop-propargyl.

Monitor weed control effectiveness and investigate any odd patches of poor grass weed control. If unexplained, contact your agronomist who may consider a resistance test appropriate.

Strains of some annual grasses e.g. blackgrass, wild oats and Italian ryegrass have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing herbicide resistant grass weeds should be adopted.

CROP SPECIFIC INFORMATION

SWORD can be safely used post-emergence on all varieties of wheat, including autumn drilled spring wheat, durum wheat, rye and triticale.

WHEAT

Application Rate: SWORD can be applied alone at 0.25 L/ha OR at a reduced rate of 0.125 L/ha in tank-mix with a suitable adjuvant (see Compatibility section).

Application Timing: Apply SWORD from one true leaf stage to before flag leaf sheath extending stage of the crop.

RYE & TRITICALE

Application Rate: SWORD can be applied alone at 0.25 L/ha OR at a reduced rate of 0.125 L/ha in tank-mix with a suitable adjuvant (see Compatibility section).

Application Timing: Apply SWORD from one true leaf stage to before 2nd node detectable stage of the crop.

WATER VOLUME

Apply in 110-200 L/ha water, use the higher volume where weeds are dense or at a larger growth stage.

WEED EFFICACY

SWORD is a contact herbicide with no residual activity.

All targeted grass weeds should be emerged and actively growing before application.

Apply SWORD in good growing conditions. Extreme conditions, such as dry or cold conditions, can impair growth of targeted weeds and therefore performance of SWORD.

SWORD does not control broad-leaved weeds.

FOLLOWING CROPS

CROP FAILURE: If a crop fails for any reason, any broad-leaved crop may be drilled. After 3 weeks any cereal crop may be drilled.

FOLLOWING NORMAL HARVEST: Any broad-leaved crop or cereal crop may be drilled.

MIXING

Ensure the sprayer is clean and in good working order. Calibrate according to sprayer manufacturers recommendations.

Half fill the spray tank with clean water and add the required quantity of SWORD. Mix thoroughly before adding the required quantity of adjuvant. Add the remainder of the water and continue agitation until spraying is complete.

Apply as a FINE or MEDIUM quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Do not use pre-orifice or air induction nozzles as efficacy may be reduced.

COMPATIBILITY

SWORD 0.125 L/ha + Adjuvant: At the reduced dose SWORD should be mixed with an authorised adjuvant from the methylated seed oil, mineral oil or non-ionic surfactant classes. Methylated seed oils are preferred.

COMPANY ADVISORY INFORMATION

ACKNOWLEDGMENTS

SWORD is a registered trademark.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but (as we cannot exercise any control over their mixing or use) all conditions and warranties, statutory or otherwise, as to the quality and fitness for any purpose of our goods are excluded, except in so far as such exclusion is prevented by law, and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at users risk.

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

CA Code (Nufarm) 3511
Product form Mixture
Trade name SWORD
Type (Nufarm) Country Specific
Country (Nufarm) Ireland

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

1.2.1. Relevant identified uses

Main use category: Professional use
Use of the substance/mixture: Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Nufarm UK Limited
Wyke Lane
Wyke
BD12 9EJ Bradford - UK
T +44 (0)1274 691234 - F +44 (0)1274691176
info.uk@uk.nufarm.com

1.4. Emergency telephone number:

Emergency number: +44 (0)1274 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity (oral), Category 4 H302
Specific target organ toxicity — Repeated exposure, Category 2 H373
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms (CLP)



GHS07



GHS08



GHS09

Signal word (CLP):

Hazardous ingredients:

Hazard statements (CLP):

Precautionary statements (CLP):

EUH-statements:

Extra phrases:

Danger

CLODINAFOF-PROPARGYL

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects

P102 - Keep out of reach of children.

P260 - Do not breathe dust, fume, gas, mist, spray, vapours.

P370 - Do not eat, drink or smoke when using this product.

P331 - Do NOT induce vomiting.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH208 - Contains clodinafop-propargyl (ISO). May produce an allergic reaction.

SP 1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Hydrocarbons, Cl0-Cl3, Aromatics, <1% Naphthalene	(CAS-No.) 64742-94-5 (EC-No.) 922-153-0 (REACH-no) 01-2119451097-39	49-55	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
clodinafop-propargyl (ISO)	(CAS-No.) 105512-06-9 (EC Index-No.) 607-625-00-3	20-24	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propylene carbonate	(CAS-No.) 108-32-7 (EC-No.) 203-572-1 (EC Index-No.) 607-194-00-1 (REACH-no) 01-2119537232-48	7-11	Eye Irrit. 2, H319
Poly(oxy-1,2-ethanediyl), alpha-(tris(1-phenylethyl) phenyl)-omega-hydroxy-	(CAS-No.) 99734-09-5 (EC-No.) 619-457-8	6-9	Aquatic Chronic 3, H412
Cloquintocet-mexyl	(CAS-No.) 99607-70-2 (EC-No.) 619-447-3	4-7	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzenesulfonic acid, 4-ClO-13-sec-alkyl derivatives, calcium salts	(CAS-No.) 84989-14-0 (EC-No.) 284-903-7 (REACH-no) 01-2119560592-37	<2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits
clodinafop-propargyl (ISO)	(CAS-No.) 105512-06-9 (EC Index-No.) 607-625-00-3	(C >= 0.001) Skin Sens. 1, H317

Full text of H-statements: see section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general:

Call a physician immediately.

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If penetrating respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First-aid measures after ingestion:

Rinse mouth. Do not induce vomiting. Call a physician immediately. Drink plenty of water.

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

Symptoms/effects after inhalation: No information available.

Symptoms/effects after skin contact: Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact: No information available.

Symptoms/effects after ingestion: May be fatal if swallowed and enters airways.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedure: Ventilate spillage area. Do not breathe fume, mist, spray, vapours.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.

Information on mixed storage: Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Special rules on packaging: Keep only in original container. Store in a closed container.

7.3. Specific end uses

Herbicide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves, Protective clothing, Protective goggles.

Hand protection:

Impermeable protective gloves. PVC gloves. Butyl rubber gloves

Eye protection:

Chemical goggles or safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	amber, brown.
Odour:	characteristic.
Odour threshold:	No data available
pH:	4 - 6 CIPAC MT 75.2
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	Not applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	102.5 °C CIPAC MT 12
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Relative gas density:	1.065 - 1.095 CIPAC MT 3.3
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	7.68 mm ² /s @ 40°C
Viscosity, dynamic:	No data available
Explosive properties:	Product is not explosive.
Oxidising properties:	Non oxidizing material according to EC criteria
Explosive limits:	No data available

9.2. Other information

No additional information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

SWORD	
LD50 oral rat	2000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.05 mg/l/4h (OECD 403 method)
Hydrocarbons, C10-C13, Aromatics, <1% Naphthalene (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4778 mg/m ³

Acute toxicity (oral):

Oral. Harmful if swallowed.

Acute toxicity (dermal):

Not classified.

Acute toxicity (inhalation):

Not classified

Skin corrosion/irritation:

Not classified (Based on available data, the classification criteria are not met)
pH: 4 - 6 CIPAC MT 75.2.

Serious eye damage/irritation:

Not classified (Based on available data, the classification criteria are not met)
pH: 4 - 6 CIPAC MT 75.2.

Respiratory or skin sensitisation:

Not classified (Based on available data, the classification criteria are not met).

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met).

Carcinogenicity:

Not classified (Based on available data, the classification criteria are not met).

Reproductive toxicity:

Not classified (Based on available data, the classification criteria are not met).

STOT-single exposure:

Not classified (Based on available data, the classification criteria are not met).

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

May be fatal if swallowed and enters airways.

SWORD	
Viscosity, kinematic	7.68 mm ² /s @ 40°C

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.
 Acute aquatic toxicity: Very toxic to aquatic life.
 Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

SWORD	
LC50 96h fish	5 mg/l Oncorhynchus mykiss; Method 92/69/EC C.1
EC50 48h crustacea	12.9 mg/l Method L383A/179
EC50 72h algae	1.8 mg/l Pseudokirchneriella subcapitata; OECD 201
ErC50 (other aquatic plants)	0.87 mg/l (OECD 221 method)

clodinafop-propargyl (ISO) (105512-06-9)

Additional Ecotox information	
Birds Oral LD50 (Bobwhite quail) >2000mg/Kg	
Bees Oral >104 ug/bee	

Cloquintocet-mexyl (99607-70-2)

Additional Ecotox information	
Birds Oral LD50 (Mallard duck) >2000mg/Kg	
Bees Oral LD50 >100 ug/bee	

Hydrocarbons, C10-C13, Aromatics, <1% Naphthalene (64742-94-5)

Additional Ecotox information	
96h LL50 (Oncorhynchus mykiss) 3.6mg/L	
48h EL50 (Daphnia magna) 1.1mg/L	
72h NOELR (Pseudokirchneriella subcapitata) 0.22 mg/L	

12.2. Persistence and degradability

clodinafop-propargyl (ISO) (105512-06-9)

Biodegradation	Water DT50 4.8d, pH7; 25°C; Soil DT50 <0.1d; 20°C;
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Cloquintocet-mexyl (99607-70-2)

Biodegradation	Water DT50 <1d; Soil DT50 0.5-2.4d
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Hydrocarbons, C10-C13, Aromatics, <1% Naphthalene (64742-94-5)

Biodegradation	69.99 % 28D
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12.3. Bioaccumulative potential

clodinafop-propargyl (ISO) (105512-06-9)

Log Pow	3.9 @25°C
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Cloquintocet-mexyl (99607-70-2)

Log Pow	5.03 @25°C
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12.4. Mobility in soil

SWORD	
Surface tension	28.4 mN/m

clodinafop-propargyl (ISO) (105512-06-9)

Log Koc	Koc 252-2364
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available




13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
 European List of Waste (LoW) code: 02 01 08* - agrochemical waste containing dangerous substances.

14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN.

ADR	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics)	Environmentally hazardous substance, liquid, n.o.s. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics)
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics), 9, III, (H)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Clodinafop propargyl, Cloquintocet-mexyl, Hydrocarbons C10-13 aromatics), 9, III
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR): M6
 Special provisions (ADR): 274, 335, 375, 601
 Limited quantities (ADR): 51
 Excepted quantities (ADR): E1
 Packing instructions (ADR): P001, IBC03, LP01, R001
 Special packing provisions (ADR): PP1
 Mixed packing provisions (ADR): MPI9
 Portable tank and bulk container instructions (ADR): T4
 Portable tank and bulk container special provisions (ADR): TP1, TP29
 Tank code (ADR): LGBV
 Vehicle for tank carriage: AT
 Transport category (ADR): 3
 Special provisions for carriage - Packages (ADR): VI2
 Special provisions for carriage - Loading, unloading and handling (ADR): CV13
 Hazard identification number (Kemler No.): 90
 Orange plates:

90
3082

Tunnel restriction code (ADR): -

Transport by sea

Special provisions (IMDG): 274, 335, 969
 Limited quantities (IMDG): 5 L
 Excepted quantities (IMDG): E1
 Packing instructions (IMDG): P001, LP01
 Special packing provisions (IMDG): PP1
 IBC packing instructions (IMDG): IBC03
 Tank instructions (IMDG): T4
 Tank special provisions (IMDG): TP2, TP29
 EmS-No. (Fire): F-A
 EmS-No. (Spillage): S-F
 Stowage category (IMDG): A

Air transport

PCA Excepted quantities (IATA): E1
 PCA Limited quantities (IATA): Y964
 PCA limited quantity max net quantity (IATA): 30kgG
 PCA packing instructions (IATA): 964
 PCA max net quantity (IATA): 450L
 CAO packing instructions (IATA): 964
 CAO max net quantity (IATA): 450L
 Special provisions (IATA): A97, A158, A197
 ERG code (IATA): 9L

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

Not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

16. OTHER INFORMATION

For text of H- and EUH-statements:

Aquatic Acute 1	Acute toxicity (Oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Serious eye damage/eye irritation, Category 2
Asp. Tox. 1	Serious eye damage/eye irritation, Category 3
Eye Dam. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1	Skin corrosion/irritation, Category 2
STOT RE 2	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Repeated exposure, Category 2
	Specific target organ toxicity — Single exposure, Category 3, Narcosis

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains . May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.