

Adigor®

syngenta®

Adjuvant registration number: 0522 (PCS: 92268)
UFI: P1Y1-60ER-M00P-DY5G

Emulsifiable concentrate containing 47% w/w
 methylated rapeseed oil.

An adjuvant for use with all authorised plant protection products in
 cereals, all non-edible crops, all non-crop production, all non-edible
 crops (stubble) and all edible crops (stubble); and with Evolya
 (MAPP 20583) in grain and forage maize (UK only)

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where
 reasonably practicable in addition to the following personal
 protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS),
 SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION
 (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS),
 SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION
 (FACE SHIELD) when handling contaminated surfaces.

However, engineering controls may replace personal protective
 equipment if a COSHH assessment shows they provide an
 equal or higher standard of protection. WASH ALL PROTECTIVE
 CLOTHING thoroughly after use, especially the inside of gloves.
 WASH SPLASHES from skin immediately. WASH HANDS AND
 EXPOSED SKIN before meals and after work.

Operators must: Follow all operator protection instructions
 for the pesticide. Where the personal protective equipment
 specified on the adjuvant label is different to that specified on
 the pesticide label, the highest level of protective equipment
 must be worn.



(b) Environmental protection

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.

(c) Storage and disposal

RINSE CONTAINER THOROUGHLY by using an integrated
 pressure rinsing device or manually rinsing three times. Add
 washings to sprayer at time of filling and dispose of safely.
 KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

In case of toxic or transport emergency ring
+44 (0) 1484 538444 any time.

*The (COSHH) Control of Substances Hazardous to Health
 Regulations may apply to the use of this product at work. (UK only)*

Authorisation Holder and UK Marketing Company

Syngenta UK Limited
 CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE
 Tel: Cambridge (01223) 883400

Irish Marketing Company

Syngenta Ireland Limited
 Block 6, Cleaboy Business Park,
 Old Kilmeaden Road, Waterford
 Tel: 051-377203

PROTECT FROM FROST

This product label
 is compliant with
 the CPA Voluntary
 Initiative (VI) guidance.
 (UK only)



L1110380 IREL/10B PPE 4193576

5 litres

Product names marked ® or ™, the ALLIANCE FRAME
 the SYNGENTA Logo and the PURPOSE ICON
 are Trademarks of a Syngenta Group Company

ADIGOR® - An emulsifiable concentrate containing 47% w/w methylated rapeseed oil.

Danger

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

Avoid breathing mist or vapours.

Wear protective gloves.

IF SWALLOWED: Immediately

call a POISON CENTRE/doctor.

Do NOT induce vomiting.

IF skin irritation or rash occurs:

Get medical advice/attention.

Repeated exposure may cause skin

dryness or cracking.

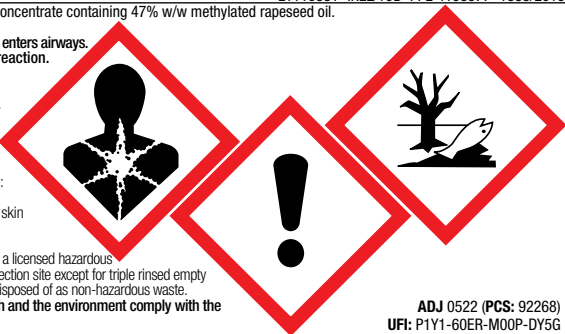
Collect spillage.

Dispose of contents/container to a licensed hazardous

waste disposal contractor or collection site except for triple rinsed empty

clean containers which can be disposed of as non-hazardous waste.

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



ADJ 0522 (PCS: 92268)

UFI: P1Y1-60ER-M00P-DY5G

IMPORTANT INFORMATION - FOR USE ONLY AS A WETTING AGENT

Crop	Pesticide(s)	Maximum concentration (% spray solution)	Maximum number of treatments	Latest time of application
Cereals	All authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Up to and including GS52 (1/4 inflorescence)
All edible crops	All authorised plant protection products at half or less than half the authorised plant protection product rate	1.0	Follow the statutory conditions of use for the plant protection product	Follow the statutory conditions of use for the plant protection product
All edible crops (stubble)	All authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Follow the statutory conditions of use for the plant protection product
Grain maize	Evolva (MAPP 20583) - UK only	1.5	1 per crop	Up to and including GS19 (nine leaves)
Forage maize	Evolva (MAPP 20583) - UK only	1.5	1 per crop	Up to and including GS19 (nine leaves)
	All other authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Up to and including tip of tassel visible
Almond, apple, apricot, aubergine, blackberry, blackcurrant, borage, Broad bean (fresh), beans without pods (dry and fresh), broccoli, Brussels sprout, bulb onion, cabbage, calabrese, carrot, cauliflower, cherry, chilli, collard, combining pea, cucumber, dwarf french bean, edible podded pea, field bean, fodder beet, garlic, hops, kale, leek, lettuce, linseed, mangel, melon, nectarine, oilseed rape, oriental cabbages, parsnip, peach, pear, pepper, plum, potato, pumpkin, raspberry, red beet, redcurrant, rocket, runner beans, salad onion, shallot, soya bean (dry), soya bean, spinach, strawberry, sugar beet, swede, sweetcorn, table grapes, tomato, turnip, vining pea, wine grapes, winter squash	All authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Up to the growth stage specified under directions for use.
All non edible crops including stubble	All authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Follow the statutory conditions of use for the plant protection product
Non crop production	All authorised plant protection products	1.0	Follow the statutory conditions of use for the plant protection product	Follow the statutory conditions of use for the plant protection product

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.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION

ADIGOR® is a methylated rapeseed oil based adjuvant for use with all authorised plant protection products.

Crops

Cereals

ADIGOR can be used on cereals up to and including GS52 (1/4 inflorescence). Follow the statutory conditions of use of the plant protection product.

Grain and Forage Maize

UK only: ADIGOR can be used once on grain and forage maize up to and including GS19 (nine leaves) with Evolya (MAPP 20583). Follow the statutory conditions of use of Evolya (MAPP 20583).

UK and Ireland: ADIGOR can be used on forage maize up to and including tip of tassel visible with any other authorised plant protection product. Follow the statutory conditions of use of the plant protection product.

Edible crops

ADIGOR may be used with any authorised plant protection product at half or less than half the authorised plant protection product rate. Observe the statutory conditions of use for the plant protection product for the number of treatments and latest time of application.

In addition, this adjuvant may be used on the following crops, up to the growth stages specified, with all authorised plant protection products applied up to their full authorised rate and for the production of stubble.

Crop	Latest growth stage of application
Almond	Up to and including first fruit set
Apple, Pear	Up to and including fruit 5-10 mm
Apricot, Cherry, Nectarine, Peach, Plum	Up to and including first fruit set
Aubergine, chilli, cucumber, melon, pepper, pumpkin, winter squash	Up to and including first fruit set
Beans without pods (dry)	Up to and including first pod set
Beans without pods (fresh)	Up to and including first pod set
Blackberry	Up to and including first fruit development
Blackcurrant and redcurrant	Up to and including first visible green fruitlet
Borage	Beginning of ripening: seed green
Broad bean (fresh), dwarf French bean, edible podded pea, runner beans	Up to and including first pod set
Broccoli, calabrese	Up to and including heads beginning to form; width of growing tip >1 cm ²
Brussels sprout	Up to and including lateral buds begin to develop
Cabbage	Up to and including heads begin to form
Carrot, parsnip, swede, turnip	Up to and including 9 true leaves unfolded
Cauliflower	Up to and including cauliflower heads beginning to form; width of growing tip up to 1 cm ²
Collard, Kale	Main shoot has reached 30% of the expected height typical for the variety
Combining pea	Up to and including flat pod (non-edible pods only)
Field bean	Up to and including first pod set
Fodder beet, Mangel	Up to and including 6 fully expanded leaves
Garlic, bulb onion, shallot, salad onion	Up to and including 9 leaves clearly visible

Crop	Latest growth stage of application
Grapes (table and wine)	Up to and including first fruit set
Hops	Up to and including cone set
Leek	Up to and including 9 leaves clearly visible
Lettuce	Varieties forming heads: up to and including heads beginning to form
Lettuce	Varieties not forming heads: up to and including leaf rosette has reached 30% of the diameter typical for the variety
Linseed	Up to and including 10% capsules formed
Oilseed rape	Up to and including 10% potential pods
Oriental cabbages	Varieties forming heads: up to and including heads beginning to form
Oriental cabbages	Varieties for forming heads: up to and including leaf rosette has reached 30% of the diameter typical for the variety
Potato	Up to and including tuber initiation
Raspberry	Up to and including first fruit set
Red beet	Up to and including six fully expanded leaves. Does not include beetroot grown for salad leaf use
Rocket	Up to and including 3rd true leaf unfolded
Soya bean	End of flowering: first pods visible (approx. 5 mm length) - GS69
Soya bean - (dry)	End of flowering: first pods visible (approx. 5 mm length) - GS69
Spinach	Leaf rosette has reached 30% of the expected diameter typical for the variety
Strawberry	Up to and including first fruit development
Sugar beet	Up to and including 6 fully expanded leaves
Sweetcorn	Up to and including tip of tassel visible
Tomato	Up to and including first fruit set on first truss
Vining pea	Up to and including flat pod (non-edible pods only)

Non-Edible Crops (including stubble), Non-Crop Production

ADIGOR may be used with any authorised plant protection product following the statutory conditions of use of the plant protection product.

Dose

Cereals, all non-edible crops (including stubble), all edible crops (including stubble and forage maize), non-crop production.

Apply ADIGOR up to a maximum concentration of 1% concentration of the total spray volume. Follow the statutory condition of use of the plant protection product.

Grain and Forage Maize - Application with Evolya (MAPP 20583), UK only

Apply ADIGOR up to a maximum concentration of 1.5% concentration of the total spray volume. Follow the statutory conditions of use of Evolya (MAPP 20583).

Mixing Procedure

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add and disperse the herbicide product first, then add the required amount of ADIGOR. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying.

Section 6 of the Health and Safety at Work Act
Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Product Regulations 1995.)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Product Regulations 1995.

SAFETY DATA SHEET - 12.0

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

1.1 Product Identifier

Trade name: ADIGOR

Design code: A12127R

Product Registration Number: PCS 92268

Unique Formula Identifier (UFI): P1Y1-60ER-M00P-DY5G

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

Use of the Substance/Mixture: Adjuvants

Recommended restrictions on use: professional use

1.3 Details of the supplier of the safety data sheet

Company: Syngenta Ireland Limited, Block 6 Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland

Phone: (051) 377203

Fax: (051) 354748

E-mail address of person responsible for the SDS: cropsales.ie@syngenta.com

1.4 Emergency telephone number

Emergency telephone number: Syngenta +44 1484 538444

Poisons Information Centre of Ireland

Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour ser-vice)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B - H317: May cause an allergic skin reaction.


Aspiration hazard, Category 1 - H304: May be fatal if swallowed and enters airways.

Short-term (acute) aquatic hazard, Category 1 - H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 2 - H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms		
Signal Word	Danger	
Hazard Statements	H304 H317 H411	May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary Statements	P261 P280 P301+P310 P331 P333+P313 P391 P501	Avoid breathing mist or vapours. Wear protective gloves. IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician Do NOT induce vomiting. IF skin irritation or rash occurs: Get medical advice/attention. Collect spillage. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

hydrocarbons, C10-C13, aromatics, <1% naphthalene

Additional Labelling

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(E)-18-ethoxyoctadec-3-ene	68920-66-1 500-236-9	Skin Irrit.2; H315 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 25 - < 30
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned UK-01-2250044631- 9-0001	Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 20 - < 25
naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

If inhaled: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

In case of skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

If swallowed: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam or Water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrocarbons, C10-C13, aromat-ics, <1% naphthalene	Not Assigned	TWA	8 ppm 50 mg/m ³	SUPPLIER
naphthalene	91-20-3	TWA	10 ppm 50 mg/m ³	91/322/EEC
Further information	Indicative			
		OELV - 8 hrs (TWA)	10 ppm 50 mg/m ³	IE OEL

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
(E)-18-ethoxyoctadec-3-ene	Workers	Inhalation	Long-term systemic effects	294 mg/m ³
	Workers	Dermal	Long-term systemic effects	2080 mg/kg
	Consumers	Inhalation	Long-term systemic effects	87 mg/m ³
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg
	Consumers	Oral	Long-term systemic effects	25 mg/kg
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Workers	Inhalation	Long-term systemic effects	151 mg/m ³
	Workers	Dermal	Long-term systemic effects	12.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m ³
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	7.5 mg/kg
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m ³
	Workers	Inhalation	Long-term local effects	25 mg/m ³
	Workers	Dermal	Long-term systemic effects	3.57 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
(E)-18-ethoxyoctadec-3-ene	Fresh water	0.007 mg/l
	Marine water	0.001 mg/l
	Sewage treatment plant	10 g/l
	Fresh water sediment	22.79 mg/kg
	Marine sediment	2.28 mg/kg
	Soil	1 mg/kg
	Freshwater - intermittent	0.1 mg/l
naphthalene	Fresh water	0.0024 mg/l
	Marine water	0.0024 mg/l
	Sewage treatment plant	2.9 mg/l
	Fresh water sediment	0.0672 mg/kg
	Marine sediment	0.0672 mg/kg
	Soil	0.0533 mg/kg

8.2 Exposure controls

Engineering Measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection: No special protective equipment required.

Hand protection

Material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0.5 mm

Remarks: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate:

Impervious clothing

Respiratory protection: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

Environmental exposure controls

Water: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid

Colour: light yellow to yellow

Odour: aromatic, like solvent

Odour Threshold: No data available

pH: 6.1, Concentration: 1 %w/v

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: 123 °C, Method: Pensky-Martens closed cup

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Vapour pressure: No data available

Relative vapour density: No data available

Density: 0.927 g/ml (20 °C)

Water solubility: completely miscible

Solubility in other solvents: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: 290 °C

Decomposition temperature: No data available

Viscosity, dynamic: 8.05 mPa.s (40 °C), 15.1 mPa.s (20 °C)

Viscosity, kinematic: No data available

Explosive properties: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension: 32.4 mN/m, %25 °C

Particle size: No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact

Acute toxicity

Product:

Acute oral toxicity: LD50 (Rat, female): > 5,000 mg/kg

Acute dermal toxicity: LD50 (Rat, male and female): > 5,000 mg/kg

Components:

naphthalene:

Acute oral toxicity: Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Product:

Species: Rabbit

Result: No skin irritation

Components:

(E)-18-ethoxyoctadec-3-ene:

Species: Rabbit

Result: Irritating to skin.

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Result: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Product:

Test Type: Buehler Test

Species: Guinea pig

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

(E)-18-ethoxyoctadec-3-ene:

Germ cell mutagenicity- Assessment: In vitro tests did not show mutagenic effects

Carcinogenicity

Components:

naphthalene:

Carcinogenicity - Assessment: Limited evidence of carcinogenicity in animal studies

Aspiration toxicity

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 9.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 7.1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.2 mg/l Exposure time: 72 h EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.41 mg/l End point: Growth rate Exposure time: 72 h

Components:

(E)-18-ethoxyoctadec-3-ene:

Toxicity to fish:	LC50 (Fish): > 1 - < 10 mg/l
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Invertebrates): > 1 - < 10 mg/l EC50 (algae): > 1 - < 10 mg/l Exposure time: 72 h Remarks: Information taken from reference works and the literature.
Toxicity to algae/aquatic plants:	NOEC: > 0.1 - < 1 mg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow) Remarks: Information taken from reference works and the literature.
Toxicity to fish (Chronic toxicity):	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: > 0.01 - < 0.1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Toxicity to fish:	LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.
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Toxicity to daphnia and other aquatic invertebrates:

EL50 (Daphnia magna (Water flea)): 1.1 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.
EL50 (Raphidocelis subcapitata (freshwater green alga)): 7.9 mg/l
End point: Growth rate
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.
NOELR (Raphidocelis subcapitata (freshwater green alga)): 0.22 mg/l
End point: Growth rate
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants:

Ecotoxicology Assessment

Chronic aquatic toxicity:

Toxic to aquatic life with long lasting effects.

naphthalene:

Ecotoxicology Assessment

Acute aquatic toxicity:

Very toxic to aquatic life.

Chronic aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

(E)-18-ethoxyoctadec-3-ene:

Biodegradability: Result: Readily biodegradable..

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Biodegradability: Result: Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

(E)-18-ethoxyoctadec-3-ene:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

naphthalene:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting potential: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or waste disposal. Do not re-use empty containers.

Waste Code: uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR	RID	IMDG	IATA
UN 3082	UN 3082	UN 3082	UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA)

IATA : Environmentally hazardous substance, liquid, n.o.s. (SOLVENT NAPHTHA)

14.3 Transport hazard class(es)

ADR	RID	IMDG	IATA
9	9	9	9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IATA

Packing instruction (cargo aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Miscellaneous

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IATA (Passenger)

Packing instruction (passenger aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Miscellaneous

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous: yes

IATA (Cargo)

Environmentally hazardous: yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Conditions of restriction for the following entries should be considered: Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): naphthalene

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Use plant protection products safely. Always read the label and product information before use.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment is not required for this substance when it is used in the specified applications.

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H228: Flammable solid.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H351: Suspected of causing cancer.

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.

Full text of other abbreviations

Acute Tox.: Acute toxicity

Aquatic Acute: Short-term (acute) aquatic hazard

Aquatic Chronic: Long-term (chronic) aquatic hazard

Asp. Tox.: Aspiration hazard

Carc.: Carcinogenicity

Flam. Sol.: Flammable solids

Skin Irrit.: Skin irritation

91/322/EEC: Europe. Commission Directive 91/322/EEC on establishing indicative limit values

IE OEL: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

91/322/EEC / TWA: Limit Value - eight hours

IE OEL / OELV - 8 hrs (TWA): Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation or Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Skin Sens. 1B	H317	Based on product data or assessment
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Based on product data or assessment

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