

DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : DRAGON

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

Use of the : Herbicide

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : ADAMA South Africa (Pty) Ltd

Ground Floor, Simeka House, The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530 South Africa

Telephone : +27 (0) 21 982 1460

E-mail address of person

responsible for the SDS

: sds@adama.com

1.4 Emergency telephone number

Emergency telephone

Number(s)

: +27 (0) 82 446 8946 +27 (0) 861 555 777

+27 (0) 21 982 1460

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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

airways.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting

effects.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.

> H315 Causes skin irritation.

May cause an allergic skin reaction. H317 Causes serious eye irritation. H319

H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard : EUH401

Statements

To avoid risks to human health and the

environment, comply with the instructions for use.

Precautionary statements Prevention:

> P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ eye protection/ face protection. P280

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get

medical advice/ attention.

Hazardous components which must be listed on the label:

prosulfocarb (ISO)

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified

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.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

SECTION 3: Composition/information on

ingredients 3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
prosulfocarb (ISO)	52888-80-9	Acute Tox. 4; H302	>= 70 - < 90
	006-072-00-X	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
calcium dodecylbenzene sulphonate	26264-06-2 247-557-8 01-2119560592-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 5
2-ethylhexan-1-ol	104-76-7 203-234-3 01-2119487289-20	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 1 - < 3

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 Safety Data Sheet with

you when calling the emergency number, a poison control

center 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,

Page 3 of 22



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Poisoning produces effects associated with anticholinesterase

activity which may include:

Nausea Diarrhoea Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Consider taking venous blood for determination of blood

cholinesterase activity (use heparin tube) Administer atropine sulphate as antidote.

Since there is no therapeutic effect, the use of oxime preparations (or other cholinesterase

reactivators) is contraindicated.

Do not induce vomiting: contains petroleum distillates

and/or aromatic solvents.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Unsuitable extinguishing

media

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

fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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.

Flash back possible over considerable distance.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear full protective clothing and self-contained breathing

apparatus.

Further information : Do not allow run-off from fire fighting to enter drains or water

ourses.

Cool closed containers exposed to fire with water spray.

Page 4 of 22



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental procautions	
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 material for containment and cleaning up

o methodo dha material for o	ontainment and oleaning ap	
Methods for 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

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on 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

Requirements for storage : No special storage conditions required. Keep containers areas and 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 feedingstuffs.

7.3 Specific end use(s)

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



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

SECTION 8: Exposure controls/personal

protection 8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
prosulfocarb (ISO)	52888-80-9	TWA	4 mg/m3	Syngenta
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	TWA	19 ppm 100 mg/m3	Supplier
2-ethylhexan-1-ol	104-76-7	TWA	20 ppm 110 mg/m3	CH SUVA
Further information	Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected			
	104-76-7	STEL	20 ppm 110 mg/m3	CH SUVA
Further information	Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected			
	104-76-7	TWA	1 ppm 5.4 mg/m3	2017/164/EU
Further information	Indicative	•	-	

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 : Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Use eye protection according to EN 166.

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.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

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.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

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 : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment:

Respirator with a particle filter (EN 143)

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Filter type : Particulates type (P)

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : clear

Colour : pale yellow

Odour : aromatic

Odour Threshold : No data available

pH : 6



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 73 °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 : 1,012 g/cm3 (25 °C)

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : 380 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Explosive properties : Not explosive

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

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

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 : No hazardous decomposition products are known.

products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Ingestion

exposure Inhalation

Skin contact Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: The toxicological data has been taken from

products of similar composition.

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: The toxicological data has been taken from

products of similar composition.

Components:

prosulfocarb (ISO):

Acute oral toxicity : LD50 (Rat, female): 1,958 mg/kg

LD50 (Rat, male): 1,820 mg/kg



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

Acute inhalation toxicity : LC50 (Rat): > 4.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute

dermal toxicity

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Acute oral toxicity : LD50 (Rat): 3,952 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : LC50 (Rat): > 6.193 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat): 2,047 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.89 - 5.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 3,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Product:

Species : Rabbit

Result : Irritating to skin.

Remarks : The toxicological data has been taken from products of similar

composition.

Components:

prosulfocarb (ISO):

Species : Rabbit



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

Result : No skin irritation

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rabbit

Result : No skin irritation

calcium dodecylbenzene sulphonate:

Result : Irritating to skin.

2-ethylhexan-1-ol:

Species : Rabbit

Result : Irritating to skin.

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Remarks : The toxicological data has been taken from products of similar

composition.

Components:

prosulfocarb (ISO):

Species : Rabbit

Result : No eye irritation

calcium dodecylbenzene sulphonate:

Result : Risk of serious damage to eyes.

2-ethylhexan-1-ol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Product:

Test Type : Buehler Test Species : Guinea pig

Result : May cause sensitisation by skin contact.

Remarks : The toxicological data has been taken from products of similar

composition.

Components:

prosulfocarb (ISO):

Species : Guinea pig

Result : May cause sensitisation by skin contact.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

Germ cell mutagenicity

Components:

prosulfocarb (ISO):

Germ cell mutagenicity- : Animal testing did not show any mutagenic effects.

Assessment

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Germ cell mutagenicity: Weight of evidence does not support classification as a germ cell mutagen., Classified based on benzene content < 0.1%

(Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

2-ethylhexan-1-ol:

Germ cell mutagenicity- : Animal testing did not show any mutagenic effects., In vitro

Assessment tests did not show mutagenic effects

Carcinogenicity

Components:

prosulfocarb (ISO):

Carcinogenicity - : No evidence of carcinogenicity in animal studies.

Assessment

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Carcinogenicity - : Weight of evidence does not support classification as a

Assessment carcinogen, Classified based on benzene content < 0.1%

(Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

2-ethylhexan-1-ol:

Carcinogenicity - : No evidence of carcinogenicity in animal studies.

Assessment

Reproductive toxicity

Components:

prosulfocarb (ISO):

Reproductive toxicity - : No toxicity to reproduction

Assessment

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Reproductive toxicity - : Weight of evidence does not support classification for

Assessment reproductive toxicity



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

2-ethylhexan-1-ol:

Reproductive toxicity -

: No toxicity to reproduction

Assessment

STOT - single exposure

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : The substance or mixture is classified as specific target organ

> toxicant, single exposure, category 3 with respiratory tract irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with

narcotic effects.

2-ethylhexan-1-ol:

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

Repeated dose toxicity

Components:

prosulfocarb (ISO):

Remarks : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3 mg/l

Exposure time: 96 h

Remarks: Based on test results obtained with similar product.

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.2 mg/l

Exposure time: 48 h

Remarks: Based on test results obtained with similar product.

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.18

mg/l

Exposure time: 96 h



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

Remarks: Based on test results obtained with similar product.

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.010

mg/l

End point: Growth rate Exposure time: 96 h

Remarks: Based on test results obtained with similar product.

Components:

prosulfocarb (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.84 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.51 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.120

mg/l

Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.009

mg/l

End point: Growth rate Exposure time: 72 h

ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.68 mg/l

Exposure time: 72 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.2 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

NOEC: 0.31 mg/l Exposure time: 21 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0.045 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 3.2 mg/l

Exposure time: 48 h

Toxicity to algae EL50 (Pseudokirchneriella subcapitata (green algae)): 2.6 -

2.9 mg/l

Exposure time: 72 h Test Type: Growth inhibition



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

NOELR (Pseudokirchneriella subcapitata (green algae)): 1

Exposure time: 72 h

Toxicity to fish (Chronic

toxicity)

NOELR: 1.23 ma/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates

NOELR: 2.14 mg/l Exposure time: 28 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

calcium dodecylbenzene sulphonate:

Ecotoxicology Assessment

Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 28.2 mg/l

Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): 17.1 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 39 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 16.6 mg/l

Exposure time: 72 h

12.2 Persistence and degradability

Components:

prosulfocarb (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 159 - 279 d

Remarks: Persistent in water.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Biodegradability Result: Readily biodegradable.

2-ethylhexan-1-ol:

Biodegradability Result: Readily biodegradable.



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

12.3 Bioaccumulative potential

Components:

prosulfocarb (ISO):

Bioaccumulation : Remarks: Prosulfocarb bioaccumulates.

12.4 Mobility in soil

Components:

prosulfocarb (ISO):

Distribution among : Remarks: Slightly mobile in soils

environmental compartments

Stability in soil : Dissipation time: 35 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

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:

prosulfocarb (ISO):

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)..

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

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)..

2-ethylhexan-1-ol:

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

No data available



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

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 disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROSULFOCARB AND SOLVENT NAPHTHA)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROSULFOCARB AND SOLVENT NAPHTHA)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROSULFOCARB AND SOLVENT NAPHTHA)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROSULFOCARB AND SOLVENT NAPHTHA)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(PROSULFOCARB AND SOLVENT NAPHTHA)

14.3 Transport hazard class(es)

ADN : 9



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

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 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Regulation (EC) No 850/2004 on persistent organic

pollutants

E1

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Not applicable

Not applicable

Not applicable

Not applicable

: Not applicable

Conditions of restriction for the following entries should be

considered:

(3)

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -

unspecified (29, 28)

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

Qu

HAZARDS

Quantity 1 Quantity 2

ENVIRONMENTAL 100 t 200 t

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

risks related to chemical agents at work.

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

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2): Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

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

H226 : Flammable liquid and vapour.

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.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list

of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

CH SUVA : Switzerland. Limit values at the work place

2017/164/EU / TWA : Limit Value - eight hours



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

BOXER

Version Revision Date: SDS Number: This version replaces all previous versions.

2.0 15.06.2018 S00040328803

CH SUVA / TWA : Time Weighted Average CH SUVA / STEL : Short Term Exposure Limit

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 for 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 r	nixture:	Classification procedure:	
Skin Irrit. 2	H315	On basis of test data.	
Eye Irrit. 2	H319	On basis of test data.	
Skin Sens. 1	H317	On basis of test data.	
Asp. Tox. 1	H304	Calculation method	
Aquatic Acute 1	H400	On basis of test data.	
Aquatic Chronic 1	H410	On basis of test data.	

Page 21 of 22



DRAGON

Version 1

Revision Date: 06.03.2019 Publish Date: 06.03.2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CH/EN