


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

iCheck Fluoro reagent

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

Test reagent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company	BioAnalyt GmbH Rheinstr. 17 14513 Teltow / GERMANY Phone +49 (0)3328-35150-00 Fax +49 (0)3328-35150-29 Homepage www.bioanalyt.com E-mail contact@bioanalyt.com
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Address enquiries to

Technical information	contact@bioanalyt.com
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	+49 (0)3328-35150-00 Mo-Fr 8:30 - 17:30
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
 Skin Irrit. 2: H315 Causes skin irritation.
 Eye Irrit. 2: H319 Causes serious eye irritation.
 STOT SE 3: H336 May cause drowsiness or dizziness.
 Repr. 2: H361f Suspected of damaging fertility.
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.



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2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

n-Hexane
Propan-2-ol

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P312 Call a POISON CENTER / doctor if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

Physico-chemical hazards

Evolution of flammable gases/vapours.

Human health dangers

If swallowed or in the event of vomiting, risk of product entering the lungs.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
50 - 98	n-Hexane CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361f - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
1 - < 49	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - < 49	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.



SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Tiredness
Narcosis
Vertigo
Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.
Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray jet.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.
Use breathing apparatus if exposed to vapours.
Forms slippery surfaces with water.
Remove persons to safety.



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6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Provide good room ventilation even at ground level (vapours are heavier than air).
Avoid contact with eyes and skin. Use personal protective equipment.
Place the container in an upright position and protect it against falling over.
Open and handle container with care.
Read label for instructions in use of product.
Use solvent-resistant equipment.

Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
Ignitable mixtures can be formed in the empty container.
Vapours can form an explosive mixture with air.
Ground/bond container and receiving equipment.
Use explosion-proofed equipment/fittings and non-sparking tools.

Do not eat, drink, smoke or take drugs at work.
Clean skin thoroughly after work, apply skin cream.
Take off contaminated clothing and wash before reuse.
Cloths contaminated with product should not be kept in trouser pockets.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.
Do not store with combustible materials.
Do not store with oxidizing or self-igniting materials.

Keep container in a well-ventilated place.
Keep container tightly closed.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Long-term exposure: 20 ppm, 72 mg/m ³
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Long-term exposure: 1000 ppm, 1920 mg/m ³
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Eight hours: 20 ppm, 72 mg/m ³

DNEL

Substance
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
general population, oral, Long-term - systemic effects: 26 mg/kg.
general population, dermal, Long-term - systemic effects: 319 mg/kg.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
Ethanol, CAS: 64-17-5
Industrial, inhalative, Acute - systemic effects: 1900 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 343 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 1900 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 114 mg/m ³ .
general population, oral, Long-term - systemic effects: 87 mg/kg.
general population, dermal, Long-term - systemic effects: 206 mg/kg.
general population, dermal, Acute - systemic effects: 950 mg/kg.
general population, inhalative, Acute - systemic effects: 950 mg/m ³ .
n-Hexane, CAS: 110-54-3
Industrial, inhalative, Long-term - systemic effects: 75 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 4 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 16 mg/m ³ .
general population, dermal, Long-term - systemic effects: 5,3 mg/kg bw/day.

PNEC

Substance
Propan-2-ol, CAS: 67-63-0
sewage treatment plants (STP), 2251 mg/l.



freshwater, 140,9 mg/l.
sediment (freshwater), 552 mg/kg.
sediment (seawater), 552 mg/kg.
seawater, 140,9 mg/l.
soil, 28 mg/kg.
Ethanol, CAS: 64-17-5
sediment (freshwater), 3,6 mg/kg.
freshwater, 0,96 mg/l.
seawater, 0,79 mg/l.
sewage treatment plants (STP), 580 mg/l.
soil, 0,63 mg/kg.
n-Hexane, CAS: 110-54-3
There are no PNEC values established for the substance.,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: ≥ 0,4 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). ≥ 0,4 mm, Viton, >480 min (EN 374-1/-2/-3). In splash contact: 0,5 mm, Polychloroprene, >60 min (EN 374-1/-2/-3).
Skin protection	Solvent-resistant protective clothing. Flame retardant antistatic protective clothing.
Other	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	alcoholic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 35 (n-hexane)
Flash point [°C]	~ -22 (n-hexane)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	1,1 Vol.% (42 g/m ³) (n-hexane)
Upper explosion limit	7,5 Vol.% (295 g/m ³) (n-hexane)
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	16 (20°C) (n-hexane)
Density [g/ml]	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	CAS 110-54-3: 4 CAS 67-63-0: 0,05 CAS 64-17-5: -0,31
Viscosity	< 7 mm ² /s (40°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

Temperature class (ATEX): T3 (CAS 110-54-3)

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapours can form an explosive mixture with air.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with alkali metals.

Reactions with peroxides.

Reactions with strong oxidizing agents.

Reactions with strong acids.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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10.5 Incompatible materials

Rubber, various plastics
Oxidizing agent

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 12800 mg/kg (RTECS).
LC50, inhalative, Rat: 72,6 mg/l/4h (RTECS).
LC50, oral, Rat: 5045 mg/kg (RTECS).
LD0, oral, Human: 3570 mg/kg (RTECS).
Ethanol, CAS: 64-17-5
LD50, oral, Rat: 7060 mg/kg (TOXNET).
LC50, inhalative, Rat: 95,6 mg/l/4h (RTECS).
n-Hexane, CAS: 110-54-3
LD50, dermal, Rabbit: 3000 mg/kg (IUCLID).
LD50, oral, mouse: 5000 mg/kg (IUCLID).

Serious eye damage/irritation

Irritant
Calculation method

Skin corrosion/irritation

Irritant
Calculation method

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.
Calculation method

Specific target organ toxicity — repeated exposure

CAS 110-54-3: May cause damage to organs (Central nervous system) through prolonged or repeated exposure through inhalation.
Product:
May cause damage to organs through prolonged or repeated exposure.
Calculation method

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity

Suspected of damaging fertility.
Calculation method

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard

May be fatal if swallowed and enters airways.
Calculation method

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



SECTION 12: Ecological information

12.1 Toxicity

Substance
Propan-2-ol, CAS: 67-63-0
LC50, (96h), <i>Lepomis macrochirus</i> : 1400 mg/l (ECOTOX-Database).
EC50, (48h), <i>Daphnia magna</i> : > 13000 mg/l (IUCLID).
IC50, (72h), <i>Scenedesmus quadricauda</i> (alga): > 1000 mg/l (IUCLID).
Ethanol, CAS: 64-17-5
LC50, (96h), <i>Leuciscus idus</i> : 8140 mg/l (IUCLID).
EC50, (48h), <i>Daphnia magna</i> : > 9000 -< 15000 mg/l (IUCLID).
EC5, (16h), <i>Pseudomonas putida</i> : 6500 mg/l (IUCLID).
IC5, <i>Scenedesmus quadricauda</i> (alga): 5000 mg/l (Lit.).
n-Hexane, CAS: 110-54-3
LC50, (96h), <i>Pimephales promelas</i> : 2,5 mg/l (ECOTOX).
EC50, (48h), <i>Daphnia magna</i> : 2,1 mg/l (Lit).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	The product is readily biodegradable: CAS 67-63-0: 95%, 21d. The product is readily biodegradable: CAS 64-17-5: 94%. The product is readily biodegradable: CAS 110-54-3: 98%, 28d.

12.3 Bioaccumulative potential

CAS 110-54-3: log Pow 4; BCF 501,2
CAS 64-17-5: log Pow -0,31
CAS 67-63-0: log Pow 0,05 (OECD 107)

12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient: 3,34 (CAS 110-54-3)
Henry Constant: 183000 Pa·m³/mol (CAS 110-54-3)

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 070704*
160506*
160508*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993

Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993



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14.2 UN proper shipping name

Transport by land according to ADR/RID Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- Classification Code F1



- Label  

- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D/E)



Inland navigation (ADN) Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- Classification Code F1

- Label  

Marine transport in accordance with IMDG Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- EMS F-E, S-E

- Label  

- IMDG LQ 1 I

Air transport in accordance with IATA Flammable liquid, n.o.s. (n-Hexane, Isopropanol solution)

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II



16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Repr. 2: H361f Suspected of damaging fertility. (Calculation method)
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

**Modified position**

SECTION 2 been added: P312 Call a POISON CENTER / doctor if you feel unwell.

SECTION 2 been added: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

SECTION 4 been added: Remove the victim into fresh air and keep him calm.

SECTION 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6 been added: Remove persons to safety.

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 7 been added: Use only in well-ventilated areas.

SECTION 7 been added: Cloths contaminated with product should not be kept in trouser pockets.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 7 been added: Place the container in an upright position and protect it against falling over.

SECTION 7 been added: Read label for instructions in use of product.

SECTION 7 been added: Open and handle container with care.

SECTION 7 been added: Use solvent-resistant equipment.

SECTION 8 been added: Flame retardant antistatic protective clothing.

SECTION 9 deleted: not determined

SECTION 9 deleted: No information available.

SECTION 10 been added: Reactions with peroxides.

SECTION 10 been added: Reactions with strong acids.

SECTION 10 been added: Reactions with strong oxidizing agents.

SECTION 10 been added: Reactions with alkali metals.

SECTION 11 been added: May be fatal if swallowed and enters airways.

SECTION 11 been added: Suspected of damaging fertility.

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 deleted: not determined

SECTION 11 been added: Calculation method

SECTION 12 been added: The Organic Carbon normalised adsorption coefficient: [x]

SECTION 12 been added: No information available.

SECTION 12 been added: The product is readily biodegradable: [x].

SECTION 12 deleted: not determined

SECTION 13 been added:

SECTION 13 been added:

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