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

1.1 Product identifier

Product number	213825
Product name	AZ 10XT Photoresist (520 cP)

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

Identified uses	Materials for use in technical applications

1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	PM-OQR * e-mail: PM_SDS_Supply@merckgroup.com
Regional representation	Merck Chemicals Ltd * Boulevard Industrial Park * Padge Road * Beeston * Nottingham * NG9 2JR * Tel. 01159 430840 *information@merckgroup.com.

1.4 Emergency telephone number

+49 (0) 6151 722440

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness. Calculation method

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**

P210 Keep away from heat.

Hazardous components which must be listed on the label:
1-Methoxy-2-propanol acetate

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word
Warning

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical nature : Organic mixture in:
Solvent

3.1 Substance

Not applicable

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (% w/w)
Naphthoquinone Diazide Derivative	52125-43-6	Self-heat. 1; H251 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
Cresol	1319-77-3	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 0.1 - < 0.25

Substances with a workplace exposure limit

1-Methoxy-2-propanol acetate	108-65-6 01-2119475791-29-xxxx	Flam. Liq. 3; H226 STOT SE 3; H336	>= 50 - <= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	:	fresh air. Call in physician.
In case of skin contact	:	rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Seek medical advice immediately.
In case of eye contact	:	rinse out with plenty of water. Remove contact lenses.
If swallowed	:	immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Headache narcosis Unconsciousness Drowsiness inebriation delirium Salivation Gastrointestinal disturbance slow pulse somnolence Drowsiness

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Combustible.

Vapours are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	:	Cool closed containers exposed to fire with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Risk of explosion.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Provide sufficient air exchange and/or exhaust in work rooms. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Observe label precautions.

Advice on protection against fire and explosion	:	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	:	Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container.
Further information on storage conditions	:	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Protected from light. Risks from decomposition products: see section 10.3
Recommended storage temperature	:	Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-Methoxy-2-propanol acetate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
	108-65-6	TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
	108-65-6	TWA	50 ppm 274 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
	108-65-6	STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Cresol	1319-77-3	TWA	5 ppm 22 mg/m3	91/322/EEC
Further information	Indicative, Existing scientific data on health effects appear to be particularly limited			
	1319-77-3	TWA (Inhalable	20 mg/m3	ACGIH

		fraction and vapor)		

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection : Safety glasses

Hand protection :

splash contact

Glove material : Nitrile rubber

Glove thickness : 0.4 mm

Break through time : 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example:KCL 730 Camatril® -Velours(splash contact);.
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Protective measures : Flame retardant antistatic protective clothing.

Respiratory protection : required when vapours/aerosols are generated.

Recommended Filter type: : ABEK-filter

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	clear amber
Odour	characteristic
Odour Threshold	No information available.
pH	Not applicable
Melting point/freezing point	< -10 °C (solvent)
Boiling point/boiling range	146 °C (solvent)
Flash point	46 °C (solvent)
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	1.5 %(V) (solvent)
Upper explosion limit	7.0 %(V) (solvent)
Vapour pressure	5.22 hPa at 25 °C (solvent)
Relative vapour density	No data available
Density	ca. 1.07 g/cm3 at 25 °C
Solubility(ies)	No information available.
Water solubility	partly soluble - phase separation
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	The substance or mixture is not classified as self heating.
Decomposition temperature	No information available.

Viscosity, kinematic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other data

Relative density	1.075 at 25 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of ignition or formation of inflammable gases or vapours with:
Oxidizing agents

Violent reactions possible with:
alkalines
Peroxides
Strong oxidizing agents
Nitric acid
fuming sulfuric acid

10.4 Conditions to avoid

Conditions to avoid : Heating.

Exposure to light.

10.5 Incompatible materials

Materials to avoid : no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	:	Acute Toxicity Estimate (ATE): > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	Acute Toxicity Estimate (ATE): > 2,000 mg/kg Method: Calculation method

Components:

Naphthoquinone Diazide Derivative:

Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available

Cresol:

Acute oral toxicity	:	LD50 (Rat, male): 121 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	LD50 (Rabbit): 301 mg/kg Remarks: (ECHA)

1-Methoxy-2-propanol acetate:

Acute oral toxicity	:	LD50 (Rat, male and female): 6,190 mg/kg Method: OECD Test Guideline 401 Remarks: (ECHA)
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: (ECHA)

Skin corrosion/irritation

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Species: Human
Method: OECD Test Guideline 431
Result: Skin irritation
Remarks: (IUCLID)

Cresol:

Species: Rabbit
Result: Corrosive
Remarks: (ECHA)

1-Methoxy-2-propanol acetate:

Species: Rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: (ECHA)

Serious eye damage/eye irritation

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Species: Rabbit
Method: OECD Test Guideline 405
Result: irritating
Remarks: (IUCLID)

Cresol:

Species: Rabbit
Result: Risk of serious damage to eyes.
Remarks: (ECHA)

1-Methoxy-2-propanol acetate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation
Remarks: (ECHA)

Respiratory or skin sensitisation

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Test Type: Local lymph node assay (LLNA)
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
Remarks: (IUCLID)

1-Methoxy-2-propanol acetate:

Test Type: Maximisation Test
Exposure routes: dermal
Species: Guinea pig

Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
Remarks: (ECHA)

Germ cell mutagenicity

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
Remarks: (IUCLID)

Cresol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

: Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 482
Result: negative

: Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Red blood cells (erythrocytes)
Application Route: Oral
Result: negative
Remarks: (ECHA)

Test Type: dominant lethal test

Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 478
Result: negative

1-Methoxy-2-propanol acetate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: (ECHA)

Carcinogenicity

Product:

This information is not available.

Components:

This information is not available.

Reproductive toxicity

Product:

No data available

Components:

1-Methoxy-2-propanol acetate:

Effects on fertility : No data available
Effects on foetal development : Species: Rat, female
Application Route: Inhalation
NOAEL Teratog.: > 22.5 mg/l
NOAEL Mater.: 2.7 mg/l
Number of exposures: daily
Test period: 21 d
Method: OECD Test Guideline 414
Remarks: (ECHA)

STOT - single exposure

Product:

No data available

Components:

1-Methoxy-2-propanol acetate:

Assessment: May cause drowsiness or dizziness.
Remarks: (ECHA)

STOT - repeated exposure

Product:

No data available

Components:

No data available

Repeated dose toxicity

Product:

No data available

Components:

1-Methoxy-2-propanol acetate:

Species: Rat, male and female
NOAEL: >= 1,000 mg/kg
Application Route: Oral
Exposure time: 44 d
Number of exposures: daily
Method: OECD Test Guideline 422
Remarks: (ECHA)
Subacute toxicity

Aspiration toxicity

Product:

No data available

Components:

No data available

11.2 Other information

Product:

Headache
narcosis
Unconsciousness
Drowsiness
inebriation
delirium
Salivation
Gastrointestinal disturbance
slow pulse
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: (IUCLID)
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 1.43 - 1.58 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: (IUCLID)
Toxicity to microorganisms	:	IC50 (Bacteria): > 7 mg/l Remarks: (Lit.)

Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.4 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: DIN 38412 part 11
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 21 mg/l Exposure time: 48 h Test Type: static test Method: DIN 38412 part 9
Toxicity to microorganisms	:	EC50 (activated sludge): 11.4 mg/l Exposure time: 4 h Test Type: static test Analytical monitoring: no
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.35 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Remarks: (ECHA)

1-Methoxy-2-propanol acetate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 134 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 408 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: (ECHA)
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 Remarks: (ECHA) ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 Remarks: (ECHA)
Toxicity to microorganisms	:	EC10 (activated sludge): > 1,000 mg/l Exposure time: 30 min Test Type: static test Method: OECD Test Guideline 209 Remarks: (ECHA) EC20 (activated sludge): > 1,000 mg/l Exposure time: 30 min Test Type: static test Method: OECD Test Guideline 209 Remarks: (ECHA)
Toxicity to fish (Chronic toxicity)	:	NOEC: 47.5 mg/l Exposure time: 14 d Species: Oryzias latipes (Orange-red killifish) Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 204 Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: >= 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211

Remarks: (ECHA)

12.2 Persistence and degradability

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301D

Cresol:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Concentration: 0.8 mg/l Result: Readily biodegradable. Biodegradation: 90 % Exposure time: 28 d Method: OECD Test Guideline 301D

1-Methoxy-2-propanol acetate:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Concentration: 76.4 mg/l Result: Readily biodegradable. Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: (ECHA)
Biochemical Oxygen Demand (BOD)	:	330 mg/g Incubation time: 5 d Remarks: (IUCLID)
Chemical Oxygen Demand (COD)	:	1,740 mg/g Remarks: (IUCLID)
ThOD	:	1,820 mg/g Remarks: (IUCLID)

12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	No data available

Components:

Naphthoquinone Diazide Derivative:

Partition coefficient: n-	:	log Pow: 5.2 (25 °C)

octanol/water		Method: OECD Test Guideline 117 Remarks: Potential bioaccumulation

Cresol:

Partition coefficient: n-octanol/water	:	log Pow: 2.33 Method: OECD Test Guideline 117 Remarks: Bioaccumulation is not expected.

1-Methoxy-2-propanol acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) Method: OECD Test Guideline 117 Remarks: Bioaccumulation is not expected. (ECHA)

12.4 Mobility in soil

Product:

No data available

Components:

Naphthoquinone Diazide Derivative:

No data available

Cresol:

No data available

1-Methoxy-2-propanol acetate:

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:

Naphthoquinone Diazide Derivative:

No data available

Cresol:

No data available

1-Methoxy-2-propanol acetate:

Assessment	:	Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII..

12.6 Other adverse effects

Product:

Additional ecological information : Discharge into the environment must be avoided.

Discharge into the environment must be avoided.

Components:

Naphthoquinone Diazide Derivative:

No data available

Cresol:

No data available

1-Methoxy-2-propanol acetate:

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Notice Directive on waste 2008/98/EC.

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

Air transport(IATA)

14.1. UN/ID No.	:	UN 1993
14.2. Proper shipping name	:	Flammable liquid, n.o.s. (2-methoxy-1-methylethyl acetate)
14.3. Class	:	3
14.4. Packing group	:	III
14.5 Environmentally hazardous	:	--
14.6 Special precautions for user	:	no

Sea transport(IMDG)

14.1. UN number	:	UN 1993

14.2. Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)
14.3. Class	:	3
14.4. Packing group	:	III
14.5 Environmentally hazardous	:	--
14.6 Special precautions for user	:	yes
EmS Code	:	F-E, S-E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant

Land transport(ADR/RID)

14.1. UN number	:	UN 1993
14.2. Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)
14.3. Class	:	3
14.4. Packing group	:	III
14.5 Environmentally hazardous	:	--

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction Number on list: 3

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

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t

Storage class	:	3
Other regulations	:	Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H251	:	Self-heating: may catch fire.
H301	:	Toxic if swallowed.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H412	:	Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.