

## Centre Testing International Group

# SDS

**Report No. : A2210111919101001**

**Company Name**

**QINGDAO ITEK STATIONERY MANUFACTURE CO.,LTD**

**shown on Report:**

**Address: XICHENGHUI INDUSTRIAL**

**PARK,CHENGYANG DISTRICT,QINGDAO**

**CITY**

**Sample Name: Correction Pen**

**Reviewed by:**

*Gu Cui*

**Approved by:**

*Chen Kai*

**Issue date:**

**Apr. 12, 2021**



No. T245251240

## Safety Data Sheet

# Correction Pen

Version : V2.0.0.1

Report No. : A2210111919101001

Creation Date : 2021/04/12

Revision Date : 2021/04/12

\*Prepared according to EU regulation No. 2020/878

## 1 Identification of the substance/mixture and of the company/undertaking

### [Product identifier

<b>Product Name</b>	Correction Pen
<b>Common Name/Trade Name</b>	Correction fluid
<b>CAS No.</b>	Not applicable
<b>EC No.</b>	Not applicable
<b>Molecular Formula</b>	Not applicable
<b>REACH Registration Number</b>	-
<b>UFI</b>	No information available

### [ Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified uses</b>	correct.
<b>Uses advised against</b>	toy.

### [ Details of the supplier of the Safety Data Sheet

<b>Name of the company</b>	Qingdao Itek Stationery Manufacture Co.,Ltd
<b>Address of the company</b>	XiChengHui Industrial Park,Chengyang District,Qingdao City
<b>Post code</b>	-
<b>Telephone number</b>	+86-532-89081076
<b>Fax number</b>	-
<b>E-mail address</b>	yy@igle.com.cn

### [ Emergency telephone number

<b>Emergency telephone number</b>	+86-532-89081076
<b>Opening hours</b>	24h

## 2 Hazards identification

### [CLP classification according to Regulation ( EC ) No. 1272/2008

<b>Flammable Liquids</b>	Category 2
<b>Aspiration Hazard</b>	Category 1
<b>Skin Corrosion/Irritation</b>	Category 2
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Category 3

<b>Carcinogenicity</b>	Category 2
<b>Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard</b>	Category 2

**| GHS Label elements**

<b>Hazard pictograms</b>	
<b>Signal word</b>	<b>Danger</b>

**| Hazard statements**

<b>H225</b>	Highly flammable liquid and vapour
<b>H304</b>	May be fatal if swallowed and enters airways
<b>H315</b>	Causes skin irritation
<b>H336</b>	May cause drowsiness or dizziness
<b>H351</b>	Suspected of causing cancer
<b>H411</b>	Toxic to aquatic life with long lasting effects

**| Precautionary statements**

**U Prevention**

<b>P201</b>	Obtain special instructions before use.
<b>P202</b>	Do not handle until all safety precautions have been read and understood.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P233</b>	Keep container tightly closed.
<b>P240</b>	Ground and bond container and receiving equipment.
<b>P241</b>	Use explosion-proof [electrical/ventilating/lighting] equipment.
<b>P242</b>	Use non-sparking tools.
<b>P243</b>	Take action to prevent static discharges.
<b>P261</b>	Avoid breathing gas/mist/vapours/spray.
<b>P264</b>	Wash face and hands thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.

**U Response**

<b>P312</b>	Call a POISON CENTRE/ doctor if you feel unwell.
<b>P321</b>	Specific treatment (see related instructions on this label).
<b>P331</b>	Do NOT induce vomiting.
<b>P391</b>	Collect spillage.
<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER/doctor.

<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.
<b>P370+P378</b>	In case of fire: Use appropriate extinguishing media mentioned in Section 5 of the SDS to extinguish.
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

☐ Storage

<b>P405</b>	Store locked up.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.

☐ Disposal

<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/ international regulations.
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| Other hazards

☐ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
<b>Hexahydrofluorene</b>	Not PBT/vPvB
<b>Titanium dioxide</b>	Not applicable

☐ Results of endocrine disrupting properties assessment

<b>Results of endocrine disrupting properties assessment</b>	Insufficient information, temporarily unable to evaluate
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☐ Other

	Not applicable.
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### 3 Composition/information on ingredients

| Substance/mixture

	Mixture
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Component	Weight % content (or range)	Classification according to Regulation( EC ) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
<b>Hexahydrofluorene</b> CAS : 108-87-2 EC : 203-624-3 Index No. : 601-018-00-7	40~50	Flammable Liquids , Category 2 , H225 ; Skin Corrosion/Irritation , Category 2 , H315 ; Aspiration Hazard , Category 1 , H304 ; Specific Target Organ Toxicity (Single Exposure) , Category 3 , H336 ; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 2 , H411	-
<b>Titanium dioxide</b>	32~35	Carcinogenicity , Category 2 , H351	-

CAS : 13463-67-7 EC : 236-675-5 Index No. : 022-006-00-2			
<b>Isoprene - styrene 1:1</b> CAS : 25038-32-8 EC : 607-504-5 Index No. : -	12~15	Not Classified	-
<b>Lecithin</b> CAS : 8030-76-0 EC : 310-129-7 Index No. : -	5~10	Not Classified	-

## 4 First-aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Skin contact</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Ingestion</b>	Rinse mouth. Rest. Refer for medical attention.
<b>Inhalation</b>	Fresh air , rest. Artificial respiration if indicated. Refer for medical attention.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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### Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

## 5 Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Small Fire : Dry chemical, CO2, water spray or alcohol-resistant foam; Large Fire : Water spray, fog or alcohol-resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter or spread fire.

### Specific hazards arising from the substance or mixture

1	Will form explosive mixtures with air.
2	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3	Vapours may travel to source of ignition and flash back.
4	Liquid and vapour are flammable.
5	Development of hazardous combustion gases or vapor possible in the event of fire.
6	May expansion or decompose explosively when heated or involved in fire.

### | Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus ( MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6 Accidental release measures

### | Personal precautions, protective equipment and emergency procedures

1	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.
3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
6	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
7	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

### | Methods and materials for containment and cleaning up

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## 7 Handling and storage

### | Precautions for safe handling

#### U Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

#### U Measures to prevent fire

1	Use only non-sparking tools.
2	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
3	Use explosion proof equipment.
4	Keep away from heat/sparks/open flames/ hot surfaces.

#### U Measures to prevent aerosol and dust generation

1	Not applicable.
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#### U Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

**| Conditions for safe storage, including any incompatibilities**

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

**| Specific end use(s)**

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
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**8 Exposure controls/personal protection**

**| Control parameters**

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<b>Hexahydrotoluene</b>	USA - OSHA	500	2000	-	-
	South Korea	400	1600	-	-
	Ireland	400	1600	-	-
	Germany (AGS)	200	810	400	1620
	Denmark	200	805	400	1610
	Australia	400	1610	-	-
<b>Titanium dioxide</b>	USA - OSHA	-	15	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	-
	France	-	11	-	-
	Denmark	-	6	-	12
	Australia	-	10	-	-

**u Biological limit values**

<b>Biological limit values</b>	No relevant regulations
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**u Monitoring methods**

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

**u Derived No effect level (DNEL)**

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Hexahydrotoluene	Inhalation	No data available	No data available	No data available	64.3 mg/m <sup>3</sup>
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Titanium dioxide	Inhalation	No data available	No data available	10 mg/m <sup>3</sup>	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Isoprene - styrene 1:1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Lecithin	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available


u Predicted No Effect Concentration (PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	No information available
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### Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

### Personal protection equipment

<b>General requirement</b>	
<b>Eye protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
<b>Hand protection</b>	Wear protective gloves ( such as butyl rubber ) , passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and body protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties



<b>Physical state</b>	Fluid
<b>Colour</b>	White
<b>Odor</b>	Slight hydrocarbon smell
<b>Odor threshold</b>	No information available
<b>pH</b>	No workable
<b>Melting point/freezing point(°C)</b>	-126
<b>Initial boiling point and boiling range(°C)</b>	101
<b>Flash point(Closed cup,°C)</b>	-6
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Highly flammable
<b>Upper/lower explosive limits[% (v/v)]</b>	Upper limit : 6.7 ; Lower limit : 1.2
<b>Vapor pressure</b>	No information available
<b>Vapor density(Air = 1)</b>	3.4
<b>Relative density(Water=1)</b>	1
<b>Solubility</b>	14mg/L ( 25°C )
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Not oxidizing
<b>Particle characteristics</b>	Not applicable

## 10 Stability and reactivity

### | Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	No information available.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### | Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
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<b>Hexahydrotoluene</b>	> 3200mg/kg(Rat)	No information available	No information available
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**|Carcinogenicity**

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
<b>Hexahydrotoluene</b>	Not Listed	Not Listed
<b>Titanium dioxide</b>	Category 2B	Not Listed
<b>Isoprene - styrene 1:1</b>	Not Listed	Not Listed
<b>Lecithin</b>	Not Listed	Not Listed

**|Endocrine disrupting properties**

<b>Endocrine disrupting properties</b>	No information available
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**| Others**

<b>Correction Pen</b>	
<b>Skin corrosion/irritation</b>	Causes skin irritation(Category 2)
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	May cause drowsiness or dizziness(Category 3)
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways(Category 1)
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

**12 Ecological information**

**|Acute aquatic toxicity**

Component	Fish	Crustaceans	Algae
<b>Hexahydrotoluene</b>	LC <sub>50</sub> : 2.1mg/L (96h)(Fish)	EC <sub>50</sub> : 0.33mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 0.34mg/L (72h)(Algae)

**|Chronic aquatic toxicity**

Component	Fish	Crustaceans	Algae
<b>Hexahydrotoluene</b>	No information available	No information available	NOEC : 0.067mg/L(Algae)

**|Persistence and degradability**

Component	Persistence (water/soil)	Persistence (air)
<b>Titanium dioxide</b>	High	High

**[Bioaccumulative potential]**

Component	Bioaccumulative potential	Comments
Titanium dioxide	Low	BCF=10

**[Mobility in soil]**

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Titanium dioxide	Low	23.74

**[Results of PBT and vPvB assessment]**

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Hexahydrotoluene	Not PBT/vPvB
Titanium dioxide	Not applicable


**[Endocrine disrupting properties]**

Endocrine disrupting properties	No information available
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**13 Disposal considerations**
**[Disposal considerations]**

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

**14 Transport information**
**[Label and Mark]**

Transporting Label	
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**[IMDG-CODE]**

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. ( Hexahydrotoluene )
Transport hazard class	3
Transport subsidiary hazard class	None
Packing group	II
Special provisions	274
Limited quantities	1L

<b>Excepted quantities</b>	E2
<b>Marine pollutant ( Yes or no )</b>	Yes
<b>EmS No.</b>	F-E,S-E

**| IATA-DGR**

<b>UN number</b>	1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. ( Hexahydrofluorene )
<b>Transport hazard class</b>	3
<b>Transport subsidiary hazard class</b>	None
<b>Packing group</b>	II
<b>Excepted quantities</b>	E2
<b>Passenger and Cargo Aircraft Limited Quantity Packing Instructions</b>	Y341
<b>Passenger and Cargo Aircraft Limited Quantity Maximum net Quantity per Package</b>	1 L
<b>Passenger and Cargo Aircraft Packing Instructions</b>	353
<b>Passenger and Cargo Aircraft Maximum net Quantity per Package</b>	5 L
<b>Cargo Aircraft Packing Instructions</b>	364
<b>Cargo Aircraft Maximum net Quantity per Package</b>	60 L
<b>Special provisions</b>	A3
<b>ERG code</b>	3H

**| UN-ADR**

<b>UN number</b>	1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. ( Hexahydrofluorene )
<b>Transport hazard class</b>	3
<b>Transport subsidiary hazard class</b>	None
<b>Packing group</b>	II
<b>Special provisions</b>	274 601 640C or 274 601 640D
<b>Limited quantities</b>	1 L
<b>Excepted quantities</b>	E2
<b>Packing instructions</b>	P001 or P001 IBC02 R001
<b>Special packing provisions</b>	-
<b>Mixed packing provisions</b>	MP19
<b>Portable tanks and bulk containers instructions</b>	T7
<b>Portable tanks and bulk containers</b>	TP1 TP8 TP28

<b>special provisions</b>	
<b>ADR tank code</b>	L1.5BN or LGBF
<b>ADR tank special provisions</b>	-
<b>Vehicle for tank carriage</b>	FL
<b>Transport category(Tunnel restriction code)</b>	2 (D/E)
<b>Special provisions for carriage(Packages)</b>	-
<b>Special provisions for carriage(Bulk)</b>	-
<b>Special provisions for carriage&gt;Loading,unloading and handling)</b>	-
<b>Special provisions for carriage(Operation)</b>	S2 S20
<b>Hazard identification No.</b>	33
<b>Notes</b>	When vapour pressure at 50°C more than 110kPa,special provisions:274 601 640C;packing instructions:P001;ADR tank code:L1.5BN;When vapour pressure at 50°C not more than 110 kPa,special provisions:274 601 640D;packing instructions:P001 IBC02 R001;ADR tank code:LGBF

## 15 Regulatory information

### International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
<b>Hexahydrotoluene</b>	√	√	√	√	√	√	√	√	√
<b>Titanium dioxide</b>	√	√	√	√	√	√	√	√	√
<b>Isoprene - styrene 1:1</b>	×	√	√	√	√	√	√	√	√
<b>Lecithin</b>	√	√	√	√	√	√	√	×	×

- [EINECS] European Inventory of Existing Commercial Chemical Substances
- [TSCA] United States Toxic Substances Control Act Inventory
- [DSL] Canadian Domestic Substances List
- [IECSC] China Inventory of Existing Chemical Substances
- [NZIoC] New Zealand Inventory of Chemicals
- [PICCS] Philippines Inventory of Chemicals and Chemical Substances
- [KECI] Korea Existing Chemicals Inventory
- [AIIC] Australia. Inventory of Industrial Chemicals (AIIC)
- [ENCS] Japan Inventory of Existing & New Chemical Substances

### European chemical inventory

Component	A	B	C	D	E	F	G
<b>Hexahydrotoluene</b>	×	×	√	√	√	√	×
<b>Titanium dioxide</b>	×	×	×	√	√	√	×

<b>Isoprene - styrene 1:1</b>	×	×	×	√	×	×	×
<b>Lecithin</b>	×	×	×	√	×	×	×

- [A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation  
 [B] Substances requiring authorisation under EU REACH regulation  
 [C] Substances restricted under EU REACH  
 [D] Pre-registered substances under EU REACH  
 [E] Registered substances under EU REACH  
 [F] Substance Evaluation – CoRAP under EU REACH  
 [G] List of priority substances under EU water policy ( Directive 2455/2001/EC )

Note:

- “√ Indicates that the substance included in the regulations.  
 ”  
 “× No data or not included in the regulations.  
 ”

## 16 Other information

### Information on revision

<b>Creation Date</b>	2021/04/12
<b>Revision Date</b>	2021/04/12
<b>Reason for revision</b>	-

### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.  
 [2] IARC, website: <http://www.iarc.fr/>.  
 [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.chemportal.org/chemportal/substancesearch/index.action>.  
 [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.  
 [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.  
 [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.  
 [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.  
 [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>OW</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

### **[Disclaimer**

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### **| Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information of section 3 and section 9 is provided by the company listed in section 1. Other information is from authoritative database and expert assessment.

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