

Shen zhen U-green Biological Technology Co., Ltd. 601, Building 2, Hualite Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong, China, 518132 +0755-23407889	S D S Revised in 04.12.2023. According to Regulation EC / 1907/2006. Edition 2
	Puffmi TX600 Pro Apple Ice 20 mg/mL


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

1.1.	Product identifier	
	Trade name:	Apple Ice 20 mg/mL
	Chemical name:	No data available
	Catalogue number:	No data available
	UFI:	-
	Form	-
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Using	E-liquids for electronic cigarettes.
	Uses advised against	At this time, we do not have any information about intended uses that are not recommended.
	Reason advised against	At this point, we do not have information on reasons / reasons for non-use.
1.3.	Details of the supplier of the safety data sheet	
	Company name	Shen zhen U-green Biological Technology Co., Ltd.
	Address	601, Building 2, Hualite Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen City
	Telephone number	0755-23407889
	Fax number	-
	e-mail of the person in charge	327258788@qq.com
	National contact	No data available
1.4.	Emergency telephone number	
	Department of emergency situations telephone number	112
	Medical information's telephone number	+49 030 192 40
	Other data	No data available

SECTION 2 HAZARD IDENTIFICATION

2.1.	Classification of the substance or mixture	
2.1.1.	Classification according to Regulation (EC) 1272/2008 [CLP]	
	Hazard class and category code	Hazard statements
	Acute Tox. 3	H301
2.1.2.	Additional information's	
	No data available	
**Full text of H i EUH statements is available in section 16.		
2.2.	Classification elements according to Regulation (EC) 1272/2008 [CLP]	
	Product identifier:	Apple Ice 20 mg/mL Contains: Nicotine
	Identification number:	-

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	Authorisation number:	-
	Hazard pictograms	
	Signal word	Danger
	Hazard-determining components of labelling	Nicotine
	Hazard statements	H301 Toxic if swallowed.
	Precautionary statements	P102 Keep out of the reach of children. P264 Wash hands thoroughly after use. P270 Do not eat, drink or smoke during use. P301 + P310 IF SWALLOWED Immediately call a POISON CENTER / doctor if you feel unwell. P330 Rinse mouth. P405 Store locked up. P501 Dispose of contents / container in accordance with national legislation on sustainable waste management.
	Additional information's on hazards	No data available
2.3.	Other hazards	
	No data available	

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS				
3.2 Mixtures				
Name	CAS/ EINECS/ Index No	REACH registration No	Content %	Classification according to Regulation (EC) No 1272/2008
Propylene glycol	57-55-6 200-338-0	/	53.48	-
Glycerol	56-81-5 200-289-5	/	40.00	-
WS-23	51115-67-4 256-974-4	/	2.00	Acute Tox. 4 H302
Nicotine	54-11-5 200-193-3 614-001-00-4	/	1.75	Acute Tox. 2 H330 Acute Tox. 2 H310 Acute Tox. 2 H300 Aquatic Chronic 2 H411
Benzoic acid	65-85-0 200-618-2 607-705-00-8	/	1.31	Skin Irrit. 2 H315 Eye Dam. 1 H318
2-Methylbutyl acetate	624-41-9 210-843-8	/	0.30	Flam. Liq. 3 H226
Hexyl acetate	142-92-7 205-572-7	/	0.30	Flam. Liq. 3 H226 Aquatic Chronic 2 H411
Acetic acid	64-19-7 200-580-7 607-002-00-6	/	0.20	Flam. Liq. 3 H226 Skin Corr. 1A H314
Ethyl butyrate	105-54-4 203-306-4	/	0.15	Flam. Liq. 3 H226
Ethyl Acetate	141-78-6 205-500-4 607-022-00-5	/	0.10	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Ethyl 2-methylbutyrat	7452-79-1 231-225-4	/	0.10	Flam. Liq. 3 H226
TRANS-2-HEXENAL	6728-26-3 229-778-1	/	0.10	Acute Tox. 4 H302 Skin Irrit. 2 H315

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				Skin Sens. 1A H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411
Ethyl maltol	4940-11-8 225-582-5	/	0.10	Acute Tox. 4 H302
Triacetin	102-76-1 203-051-9	/	0.10	-
Ethyl acetoacetate	141-97-9 205-516-1	/	0.01	-

SECTION 4 FIRST AID MEASURES

4.1.	Description of first aid measures	
	General information	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration
	Inhalation	Remove the victim (move out / take out) to fresh air; allow her to rest. Seek medical attention if symptoms persist.
	Skin contact	Remove contaminated clothing. Wash skin thoroughly with water and mild soap, and then rinse with plenty of water for about 15 minutes. In the case of the occurrence and persistence of symptoms of irritation, seek for medical attention. Wash contaminated clothing thoroughly before reuse.
	Eye contact	Wash hands! In case of contact with eyes, rinse immediately with plenty of water, remove contact lenses (if there are any) and continue to rinse for about 15 minutes. During rinsing keep eyelids widely open and move your eyeball. If symptoms persist, seek help from an ophthalmologist
	Ingestion	Immediately get medical attention! Rinse mouth with water. Do not give anything to a person in an unconscious state.
4.2.	Most important symptoms and effects, both acute and delayed	
	After inhalation	Toxic if ingested.
	After skin contact	The product is not classified, but it contains at least one substance that can cause an allergic reaction on the skin.
	After eye contact	Since we did not have any additional information on this product while making this MSDS, except for the information's on the substances in the composition (section 3), and since we do not have any other knowledge except we know this product Causes serious eye irritation, we can only state what we are taught by experience in making MSDS's for products with the same H mark; Causes serious eye irritation redness, tearing, pricking may occur when contacting this product
	After ingestion	Toxic if swallowed.
4.3.	Immediate medical attention and special treatment needed	
	Show medical staff the material safety data sheet or label/packaging. Treatment should be symptomatic and supportive.	

SECTION 5 FIREFIGHTING MEASURES

5.1.	Extinguishing media	
	Suitable extinguishing media	Carbon dioxide, dry chemical, heavy air foam (foam based on alcohol).
	Unsuitable extinguishing media	High water jet.
5.2.	Special hazards arising from the mixture	

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	Hazardous burning product	Burning products are not known.
5.3.	Advice for firefighters	
	Wear self-contained breathing apparatus (HRN EN 137), protective clothing against fire (HRN EN 469), gloves (HRN EN 659) and boots (HRN A29 or A30). Wear protective clothing to prevent contact with skin and eyes. Evacuate and isolate danger area. Closed containers exposed to fire or high temperature should be cooled down with dispersed streams of water if it is safe to do. Prevent wastes from extinguishing to enter drains and water reservoirs by building dikes (for example sand). The resulting waste and residues after the fire action should be removed in accordance valid regulations.	

SECTION 6 ACCIDENTAL RELEASE MEASURES		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personal	
	Protective equipment	Wear protective personal clothing (section 8.)
	Accident preventing procedures	Make sure that everyone are following recommended procedures for safe handling, storage and transport (see section 7.) Ensure good ventilation or constant ventilation. Remove ignition sources.
	Procedures in case of accident	Evacuation of the danger zone.
6.1.2.	For emergency personnel	
	Wear protective clothing recommended in Section 8. Keep unprotected personnel away.	
6.2.	Environmental precautions	
	Avoid release to drains, surfaces and ground water. Observe all national regulations on publishing the report.	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	For boarding, covering, plugging	
	Prevent spilling in sewage / surface water by building sand barrages and barriers. Ensure adequate ventilation. In case of large spills inform local authority.	
6.3.2.	Methods and materials for containment and cleaning up	
	Pick up with inert absorbent material (sand, diatomic earth) and move it to disposal, with non-sparking tools, in tightly closed containers. Rinse soil with a large amount of water. In case of larger contamination contact national authority.	
6.3.3.	Other information	
	No data available.	
6.4.	Direction on other sections	
	See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	

SECTION 7 HANDLING AND STORAGE		
7.1.	Precautions for safe handling	
7.1.1.	Protective measures	
	Keep away from heat and direct sunlight.	
	Ensure good ventilation/exhaustion at the workplace.	
	Prevent formation of aerosols.	
	Avoid contact with eyes and skin.	
	For the general occupational hygienic measures refer to Section 8.	

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7.1.2.	General advice of hygiene on work place	
	Do not eat, drink or smoke when using this product (on working place). Wash hands thoroughly after handling and before break. Wear protective personal clothing (section 8.) Remove all contaminated clothes and footwear.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage requirements	Store in tightly closed containers in a well-ventilated place.
	Suitable packaging	Suitably the original manufacturer's container. Inappropriate Any other container
	Demand for storage area and containers	No data available.
	Advice how to set out the storage	No data available.
	Other information's on storage terms	Ensure good ventilation of a working space or often ventilation to avoid creating pairs.
7.3.	Specific end use(s)	
	Recommendations	No data available.
	Special solutions for the industrial sector	No data available.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION				
8.1.	Control parameters			
Substance	CAS No.	Occupational exposure limits		Biological exposure limits
		ppm	mg/m ³	
Propylene glycol	57-55-6	150 / -	474 / 10	-
Glycerin	56-81-5	-	- / 10	-
DNEL				
Industrial				
Route of exposure	Acute local effects	Acute systematic effects	Chronical local effects	Chronical systematic effects
Orally	-	-	-	-
Inhalation	-	-	-	-
Dermally	-	-	-	-
Consumer				
Route of exposure	Acute local effects	Acute systematic effects	Chronical local effects	Chronical systematic effects
Orally	-	-	-	-
Inhalation	-	-	-	-
Dermally	-	-	-	-
PNEC				
Protected environmental object			PNEC	
Freshwater			-	
Freshwater sediments			-	
Seawater			-	

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Seawater sediments	-
Nutritional chain	-
Sewage treatment plant	-
Soil	-
Air	-
8.2. Charge of exposure	
8.2.1. Appropriate engineering controls	
Measures to prevent exposure while recommended handling	Avoid contact with eyes and skin. Use personal protective clothes as required.
Structure measures to prevent exposure	No data available
Organisation measures to prevent exposure	No data available
Technical measures to prevent exposure	Ensure enough air exchange / transition
8.2.2. Individual protection measures, such as personal protective equipment	
8.2.2.1. Personal protective equipment	
Respiratory protection Suitable respiratory protective device recommended	Protection of hands Protective gloves
8.2.2.2. Protective specifications details	
Eye/face protection	
Use protective goggles that adhere well to the face (HRN EN 166).	
Skin protection	
Hand protection	By prolonged or repeated contact wear protective gloves (HRN EN 374) .
Other body parts protection	Wear suitable protective long-sleeved cotton clothing that protects the whole body (HRN EN ISO 13688) and impermeable rubber boots (footwear that covers the whole foot (HRN EN 13832).
8.2.2.3. Respiratory protection	
When overtaking the Threshold Limit Value concentration in the air wear protective mask with filter "A". If oxygen concentrations are suspected to be below 17%, use a self-contained breathing apparatus with an open circuit to compressed air.	
8.2.2.4. Heat hazard	
For special conditions relating to the personal protective equipment for fire-fighters see section 5.	
8.2.3. Environment exposure control	
Measures for prevent exposure to substance/component	Ensure good ventilation or constant ventilation.
Structural measures for prevent exposure	No data available
Organisational measures for prevent exposure	No data available
Technical measures to prevent exposure	No data available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES			
9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state	Liquid	No data available
	Colour	Yellow	No data available

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	Odour	No data available	No data available
	Odour threshold	No data available	No data available
	Melting/freezing point	No data available	No data available
	Boiling point or initial boiling point and boiling range	No data available	No data available
	Flammability (solid, gas)	No data available	No data available
	Lower and upper explosion limit	No data available	No data available
	Flash point	No data available	No data available
	Auto-ignition temperature	No data available	No data available
	Decomposition temperature	No data available	No data available
	pH	5.84	/
	Kinematic viscosity	No data available	No data available
	Solubility(ies)	No data available	No data available
	Partition coefficient (n-octanol/water)	No data available	No data available
	Vapour pressure	No data available	No data available
	Relative density	1.1095±0.01 g/cm ³	/
	Relative vapour density	No data available	No data available
	Particle characteristics	No data available	No data available
9.2.	Other information		
9.2.1	Information with regard to physical hazard classes		
	Hazard class	Data	
	Explosives	No data available	
	Flammable gases	No data available	
	Aerosols	No data available	
	Oxidising gases	No data available	
	Gases under pressure	No data available	
	Flammable liquids	No data available	
	Flammable solids	No data available	
	Self-reactive substances and mixtures	No data available	
	Pyrophoric liquids	No data available	
	Self-heating substances and mixtures	No data available	
	Oxidising liquids	No data available	
	Oxidizing solids	No data available	
	Organic peroxides	No data available	

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	Corrosive to metals	No data available
	Desensitised explosives	No data available
9.2.2	Other safety characteristics	
	Safety characteristics	Results
	Mechanical sensitivity	No data available
	Self-accelerating polymerisation temperature	No data available
	Formation of explosible dust/air mixtures	No data available
	Acid/alkaline reserve	No data available
	Evaporation rate	No data available
	Miscibility	No data available
	Conductivity	No data available
	Corrosiveness	No data available
	Gas group	No data available
	Redox potential	No data available
	Radical formation potential	No data available
	Photocatalytic properties	No data available

SECTION 10 STABILITY AND REACTIVITY

10.1.	Reactivity	
	No decomposition if used according to specifications	
10.2.	Chemical stability	
	Stable under recommended storage conditions	
10.3.	Possibility of hazardous reactions	
	No dangerous reactions known	
10.4.	Conditions to be avoided	
	No further relevant information available	
10.5.	Incompatible materials	
	No further relevant information available	
10.6.	Hazardous decomposition products	
	No dangerous decomposition products known.	

SECTION 11 TOXICOLOGICAL INFORMATION

11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008					
	Acute toxicity					
	54-11-5 Nicotine					
	Route of exposure	Method	Organism	Dose LD ₅₀ /LC ₅₀ or ATE _{compound}	Time of exposure	Result
	Oral	-	-	5 mg/kg (ATE) 50 mg/kg (rat)	-	-
	Dermal	-	-	70 mg/kg (ATE)	-	-
	Inhalation	-	-	0.19 mg/l (ATE)	4H	-
	Skin corrosion/irritation					

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	Since we did not have any additional information on this production (during making this MSDS), except the information on the ingredients (section 3), we have no other information except that this product does not irritate the skin
	Serious eye damage/ irritation
	Since we did not have any additional information on this production (during making this MSDS), except the information on the ingredients (section 3), we have no other information except that this product causes serious eye irritation
	Respiratory or skin sensitisation
	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity
	Based on available data, the classification criteria are not met.
	Carcinogenicity
	Based on available data, the classification criteria are not met.
	Reproductive toxicity
	Based on available data, the classification criteria are not met.
	STOT-single exposure
	Based on available data, the classification criteria are not met.
	STOT-repeated exposure
	Based on available data, the classification criteria are not met.
	Aspiration hazard
	Based on available data, the classification criteria are not met.
11.2.	Information on other hazards
	Endocrine disrupting properties -
	Other information -

SECTION 12 ECOLOGICAL INFORMATION						
12.1.	Toxicity					
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC ₅₀	96 h	-	-	-	-
Crustacean	EC ₅₀	48 h	-	-	-	-
Algae	IC ₅₀	72 h	-	-	-	-
Other organisms	-	-	-	-	-	-
Chronic toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC ₅₀	96 h	-	-	-	-
Crustacean	EC ₅₀	48 h	-	-	-	-
Algae	IC ₅₀	72 h	-	-	-	-
Other organisms	-	-	-	-	-	-
12.2.	Persistence and degradability					
	Biodegradability					

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% degradation	Time (dates)	Method	Evaluation	Note		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
12.3.	Bioaccumulative potential					
	Partition coefficient octanol/water logPow					
Value	Concentration	pH	°C	Method	Evaluation	Note
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
	Bio concentration factor (BCF)					
Value	Organism	Method	Evaluation	Note		
-	-	-	-	-		
-	-	-	-	-		
-	-	-	-	-		
12.4.	Mobility in soil					
	-					
12.5.	Results of PBT and vPvB assessment					
	-					
12.6.	Endocrine disruption properties					
	-					
12.7.	Other adverse effects					
	-					

SECTION 13. DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods
	Disposal methods for the product
	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
	Disposal methods for uncleaned packaging
	Disposal must be made according to official regulations

SECTION 14. TRANSPORT DETAILS	
14.1.	UN number or ID number
IMDG, ADR, RID, ADN or ICAO TI	UN3144
14.2.	UN proper shipping name
IMDG, ADR, RID, ADN	3144 Nicotine COMPOUND, LIQUID, N.O.S. (Nicotine)
14.3.	Transport hazard class(es)
IMDG, ADR, RID, ADN	

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	Class	6.1 Toxic substances.
	Label	6.1
14.4.	Packing group	
ADR, RID, ADN		III
14.5.	Environmental hazards	
		Not applicable.
14.6.	Special precautions for user	
		Use protective measures according to section 8
14.7.	Maritime transport in bulk according to IMO instruments	
		Not applicable.
	Other information	
· ADR/RID/ADN		
Limited quantities (LQ)		5L
Excepted quantities (EQ)		Code E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml
Transport category		2
·IMDG		
Limited quantities (LQ)		5L
Excepted quantities (EQ)		Code E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml
UN "Model Regulation"		UN 3144 NicotineCOMPOUND, LIQUID, N.O.S. (Nicotine), 6.1, III

SECTION 15. REGULATORY INFORMATION	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU directive
	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).
	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
	National directive
	-
15.2.	Chemical safety assessment
	A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

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a)	Changes mention	No data available.	
b)	Abbreviation	<p>ADR Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG International Maritime Code for Dangerous Goods</p> <p>IATA International Air Transport Association</p> <p>GHS Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS European List of Notified Chemical Substances</p> <p>CAS Chemical Abstracts Service (division of the American Chemical Society)</p> <p>DNEL Derived No-Effect Level (REACH)</p> <p>PNEC Predicted No-Effect Concentration (REACH)</p> <p>LC50 Lethal concentration, 50 percent</p> <p>LD50 Lethal dose, 50 percent</p> <p>PBT Persistent, Bioaccumulative and Toxic</p> <p>vPvB very Persistent and very Bioaccumulative</p> <p>Flam. Liq. 2 Flammable liquids – Category 2</p> <p>Flam. Liq. 3 Flammable liquids – Category 3</p> <p>Acute Tox. 2 Acute toxicity – Category 2</p> <p>Acute Tox. 3 Acute toxicity – Category 3</p> <p>Acute Tox. 4 Acute toxicity – Category 4</p> <p>Acute Tox. 1 Acute toxicity – Category 1</p> <p>Skin Corr. 1A Skin corrosion/irritation – Category 1A</p> <p>Eye Irrit. 2 Serious eye damage/eye irritation – Category 2</p> <p>STOT SE 3 Specific target organ toxicity (single exposure) – Category 3</p> <p>Aquatic Chronic 2 Hazardous to the aquatic environment - long-term aquatic hazard – Category 2</p> <p>Aquatic Chronic 3 Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</p>	
c)	Key literature and data's source	<p>IUPAC International Union of Pure and Applied Chemistry</p> <p>ECHA The European Chemicals Agency - European Commission</p> <p>IUCLID International Uniform Chemical Information Database</p> <p>IUPAC, ECHA, IUCLID, MANUFACTURER</p>	
d)	Classification and using classification procedures for compounds according to CLP directive		
CLP Classification		Classification procedure	
Acute Tox. 3, H301		According to the calculating method.	
e)	Adequately Hazard statements (number and full text)		
	H	225	Highly flammable liquid and vapour.
	H	319	Causes serious eye irritationMay cause .
	H	336	May cause drowsiness or Dizziness.
	H	302	Harmful if swallowed.
	H	226	Flammable liquid and vapour.
	H	314	Causes severe skin burns and eye damage.
	H	330	Fatal if inhaled.
	H	310	Fatal in contact with skin.
	H	411	Toxic to aquatic life with long lasting effects.
	H	300	Fatal if swallowed.

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	Apple Ice 20 mg/mL

	H	315	Causes skin irritation.
	H	318	Causes serious eye damage
	H	317	May cause an allergic skin reaction
	H	400	Very toxic to aquatic life
	H	410	Very toxic to aquatic life with long lasting effects
f)	Advices for practising		-
	Detail notice		None
	As we know, information's which are contained in that MSDS matches our present cognition about this product. This product cannot be used in other purposes then those mentioned in MSDS sections. In case mixing with different products it is necessary to check are there any additional hazards. In case this product is used against information's that provides manufacturer, manufacturer has no legal responsibility for those allegations. Always read label and information's on product.		

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