Toxicity: Categories 1 and 2 considered to be highly toxic having acute toxicity.

Acute Toxicity	Category 1	Category 2	Category 3	Category 4	Category 5
Oral (mg/kg)	≤ 5	> 5 ≤ 50	> 50 ≤ 300	> 300 ≤ 2000	Criteria: • Anticipated oral LD50 between
Dermal (mg/kg)	≤ 50	> 50 ≤ 200	> 200 ≤ 1000	> 1000 ≤ 2000	2000 and 5000 mg/kg; Indication of significant effect in humans; * Any mortality at class 4; * Significant clinical signs at class 4; * Indications from other studies. * If assignment to a more hazardous class is not warranted
Gases (ppm)	≤ 100	> 100 ≤ 500	> 500 ≤ 2500	> 2500 ≤ 5000	
Oral (mg/l)	≤ 0.5	> 0.5 ≤ 2.0	> 2.0 ≤ 10	> 10 ≤ 20	
Oral (mg/l)	≤ 0.05	> 0.05 ≤ 0.5	> 0.5 ≤ 1.0	> 1.0 ≤ 5	

ACTUE ORAL TOXICITY – Annex 1						
	Category 1	Category 2	Category 3	Category 4	Category 5	
LD ₅₀	≤ 5 mg/kg	> 5 < 50 mg/kg	≥ 50 < 300 mg/kg	> 300 ≤ 2000 mg/kg	≥2000 and <5000 mg/kg	
Pictogram				!	No Symbol	
Signal Word	Danger	Danger	Danger	Warning	Warning	
Hazard Statement	Fatal if Swallowed	Fatal if Swallowed	Fatal if Swallowed	Harmful if Swallowed	May be harmful if Swallowed	

Skin Corrosion/Irritation: considered to be reversible, corrosion is not. One typical characteristics of corrosive material is extreme pH like ≤2 or ≥ 11.5.

Skin Corrosion Category 1			Skin Irritation Category 2	Mild Skin Irritation Category 3
Destruction of dermal tissue: visible necrosis in at least one animal		Reversible adverse effects in dermal tissue	Reversible adverse effects in dermal tissue	
Subcategory 1A Exposure < 3 min Observation < 1 hr.	Subcategory 1B Exposure < 3 min Observation < 14 days	Subcategory 1C Exposure < 4 hrs. Observation < 14 days	Draize Score: ≥ 2.3 < 4.0 or persistent information	Draize Score: ≥ 1.5 < 2.3



Eye Effects: Irritation considered to be reversible, serious damage is not. One typical characteristic of corrosive material is extreme pH like ≤2 or ≥ 11.5.

Category 1	Category 2				
Serious eye	Eye Irritation				
damage	*				
Irreversible damage 21 days after exposure	Reversible adverse effects on cornea, iris, conjunctiva				
-	Draize score:				
Draize score:	Corneal opacity ≥ 1				
Corneal opacity ≥ 3	Iritis ≥ 1				
Iritis ≥ 1.5	Redness ≥ 2				
	Chemosis ≥ 2				
	Irritant	Mild Irritant			
	Subcategory 2A	Subcategory 2B			
	Reversible in 21 days	Reversible in 7			
		days			



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Sensitizers: Two categories and skin. Respiratory sensitizers induce hypersensitivity of the always following inhalation of the substance. Skin sensitizers (equivalent to contact sensitizers) induce an allergic response following skin contact.



Respiratory Sensitizer:

Skin Sensitizer:



Germ Cell Mutagenicity (left table) and Carcinogenicity (right table)

Category 1 Ki	nown/Presumed	Category 2 Suspected/Possible	
Known to produce heritable mutations in human germ cells		May induce heritable mutations in human germ cells	
Subcategory 1A Positive evidence from epidemiological studies	Subcategory 1B Positive results in: • In vivo heritable germ cell tests in mammals • Human germ cell tests • In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity	Positive evidence from tests in mammals and somatic cell tests In vivo somatic genotoxicity supported by in vito mutagenicity	



Known o	Category 2 Suspected Carcinogen		
Subcategory 1A Known or Human Carcinogen Based on human evidence	Subcategory 1B Presumed Human Carcinogen Based on demonstrated animal carcinogenicity	Limited evidence of human or animal carcinogenicity	

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Reproductive toxicity

Cat	egory 1	Category 2 Suspected	Additional Category	
Known or presumed to cause effects on human reproduction or on development		Human or animal evidence possibly with other	Effects on or via lactation	
Category	Category 1B	information		
1A	Presumed			
Known	Based on			
Based on human evidence	experimental animals			



Acute and Chronic Aquatic Toxicology

Acute Cat. I		Acute Cat. II		Acute Cat. III	
Acute toxicity ≤		Acute toxicity > 1.00 but		Acute toxicity > 1.00	
1.00 mg/l		≤ 10.0 mg/l		but < 100.0 mg/l	
Chronic Cat. I	C	hronic Cat. II	Chronic Cat. III		Chronic Cat.
Acute toxicity	1	Acute toxicity	Acute toxi	city	IV
≤ 1.00 mg/	> 1.00 but ≤		> 10.0 but ≤		Acute toxicity
and lack of	′	10.0 mg/l and 100 mg/l a		and	> 100 mg/l
rapid		lack of rapid	lack of rapid		and lack of
degradability	degradability		degradability		rapid
and log K _{ow} ≥ a		nd log K _{ow} ≥4	and log K _{ow} ≥ 4		degradability
4		ınless BCF <	unless BC	F<	and log K _{ow} ≥
unless BCF < 5		00 and unless	500 and ur	less	4
500 c		hronic toxicity	chronic tox	icity	unless BCF <
		> 1 mg/l	> 1 mg/	Ί	500 and
		· ·			unless chronic
					toxicity > 1
					mg/l
					_

