

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 19-Dec-2008 Revision Date 14-Feb-2023 Version 2.3

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Code(s) 35949

**Product Name** Fluoride Standard Solution 10.0 mg/l as F-

Molecular weight No data available

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

Recommended Use Standard solution.

Uses advised against Consumer use

#### 1.3. Details of the supplier of the safety data sheet

#### **Supplier**

HACH UK Laser House Ground Floor, Suite B Waterfront Quay, Salford Quays GB - Manchester, M50 3XW Tel. +44 (0) 161 872 1487 info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

## 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## **Section 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## 2.2. Label elements

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This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] EUH208 - Contains Formaldehyde May produce an allergic reaction.

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Formaldehyde	50-00-0 (605-001-00-5) 200-001-8 605-001-00-5	<0.1%	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Eye Dam. 1 - H318 Acute Tox. 3 - H331 Muta. 2 - H341 Carc. 1B - H350 STOT SE 3 - H335	Eye Irrit. 2 :: 5%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 5%<=C<25% Skin Sens. 1 :: C>=0.2% STOT SE 3 :: C>=5%	-	-
Sodium fluoride	7681-49-4 231-667-8 009-004-00-7	<0.01%	Acute Tox. 3 - H301 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412	-	-	-

#### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist -	hour - vapour -	Inhalation LC50 - 4 hour - gas - ppm
Formaldehyde 50-00-0	100 mg/kg	270 mg/kg	<b>mg/L</b> 0.578 mg/L	mg/L None reported	None reported
Sodium fluoride 7681-49-4	52 mg/kg	175 mg/kg	None reported	None reported	None reported

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## **Section 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

General advice Take off contaminated clothing and shoes immediately. Show this safety data sheet to the

doctor in attendance.

**Inhalation** Remove to fresh air. If symptoms persist, call a doctor.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a

doctor.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a doctor.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors**Treat symptomatically.

## **Section 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

surrounding environment. Product itself does not burn.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

#### 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

**Additional information** Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information.

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional

Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see Section 13).

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific use(s) Analytical reagent.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure Limits**This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	European Union	United Kingdom	Ireland
Formaldehyde	+	TWA: 2 ppm	TWA: 0.3 ppm
50-00-0	TWA: 0.37 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 0.5 ppm
	TWA: 0.3 ppm	STEL: 2 ppm	TWA: 0.37 mg/m <sup>3</sup>
	*	STEL: 2.5 mg/m <sup>3</sup>	TWA: 0.62 mg/m <sup>3</sup>
	STEL: 0.74 mg/m <sup>3</sup>		STEL: 0.6 ppm
	STEL: 0.6 ppm		STEL: 0.738 mg/m <sup>3</sup>
			STEL: 0.62 mg/m <sup>3</sup>
			Sens+

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Sodium fluoride 7681-49-4	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m³ STEL: 7.5 mg/m³
7001 43 4		OTEL: 7.5 mg/m	OTEL: 7.0 mg/m

Chemical name	European Union	United Kingdom	Ireland
Sodium fluoride	-	-	2 mg/L (urine - Fluoride prior
7681-49-4			to shift)
			3 mg/L (urine - Fluoride end of
			shift)

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration

No information available.

(PNEC)

Additional information No information available.

8.2. Exposure controls

**Engineering controls**Technical measures and appropriate working operations should be given priority over the

use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves

must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

**Skin and body protection** Avoid contact with eyes, skin and clothing.

**Respiratory protection** Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wash hands before breaks and after work.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Physical state Liquid

Colour colourless Odour Odourless

Odour threshold No data available

Property Values Remarks • Method

Molecular weight No data available

pH ~ 7 @ 20 °C

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Melting point / freezing point ~ -1 °C / 30.2 °F

Initial boiling point and boiling range  $\sim 100$  °C / 212 °F

**Evaporation rate** 1 (water = 1)

Vapour pressure 23.627 mm Hg / 3.15 kPa at 25 °C / 77 °F

Relative vapor density 0.62

Specific Gravity 1

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity No data available

Kinematic viscosity

No data available

Relative density 1.0 g/mL @ 20 °C

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility_	Water Solubility Temperature_	
Soluble	> 1000 mg/L	25 °C / 77 °F	

#### Solubility in other solvents

Chemical Name_	Solubility classification	<u>Solubility</u>	Solubility Temperature_	
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F	

#### **Metal Corrosivity**

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

Flammability

Upper flammability limit:No data availableLower flammability limitNo data available

Oxidising properties No data available.

Bulk density

No data available

9.2. Other information

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No information available.

## **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

## **Section 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

#### **Acute toxicity**

Based on available data, the classification criteria are not met

Mixture No data available.

Substance Test data reported below.

#### **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Rat LD <sub>50</sub>	52 mg/kg	None reported	None reported	GESTIS
Formaldehyde	Rat LD <sub>50</sub>	100 mg/kg	None reported	None reported	GESTIS

#### **Dermal Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Rat	175 mg/kg	None reported	None reported	ERMA
	LD <sub>50</sub>				
Formaldehyde	Rabbit	270 mg/kg	None reported	None reported	GESTIS
	LD <sub>50</sub>				

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#### Inhalation (Dust/Mist) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde	Rat LC <sub>50</sub>	0.578 mg/L	4 hours	None reported	LOLI

#### Inhalation (Vapor) Exposure Route:

## **Acute Toxicity Estimate (ATE)**

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

## **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Formaldehyde	Draize Test	Human	0.150 mg	72 hours	Corrosive to skin	RTECS
Methanol	OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		None reported	20 hours	Not corrosive or irritating to skin	ECHA

## Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium fluoride	Draize Test	Rabbit	20 mg	24 hours	Eye irritant	RTECS
Formaldehyde	Rinse Test	Human	1 ppm	6 minutes	Corrosive to eyes	RTECS
Methanol	OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		0.05 mL	24 hours	Not corrosive or irritating to eyes	ECHA

## Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

**Skin Sensitization Exposure Route:** 

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Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium fluoride	OECD Test No. 406: Skin Sensitisation	Guinea pig	No sensitisation responses were observed.	ECHA
Formaldehyde	Patch test	Human	Confirmed to be a skin sensitizer	ERMA
Methanol	OECD Test No. 406: Skin Sensitisation	Guinea pig	No sensitisation responses were observed.	ECHA

## **Respiratory Sensitization Exposure Route:**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Formaldehyde	IgE Specific Immune Response Test	Guinea pig	Confirmed to be a respiratory sensitizer	CICAD

**STOT - single exposure** 

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

## **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Human TD∟₀	0.214 mg/kg	None reported	Gastrointestinal Changes in structure or function of salivary glands Hypermotility Diarrhoea	RTECS
Formaldehyde	Human LD⊾₀	70 mg/kg	None reported	Gastrointestinal Kidney, Ureter, or Bladder Liver Other changes Ulcerated stomach Other changes	RTECS
Methanol	Human LD∟₀	143 mg/kg	None reported	Lungs, Thorax, or Respiration Dyspnea	RTECS

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Methanol	Human TC⊾₀	300 mg/L	None reported	Lungs, Thorax, or Respiration Other changes	RTECS

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

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#### **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Rat TD∟₀	420 mg/kg	42 days	Brain and Coverings Other degenerative changes Behavioral Somnolence (general depressed activity) Blood Changes in serum composition (e.g. TP, bilirubin, cholesterol)	RTECS
Methanol	Monkey	2340 mg/kg	3 days	None reported	ECHA

## Inhalation (Dust/Mist) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Rat	1.0 mg/L	119 days	Biochemical	RTECS
	TCLo		_	Other degenerative changes	
				Kidney, Ureter, or Bladder	
				Other changes in urine	
				composition	
				Musculoskeletal	
				Changes in teeth and supporting	
				structures	ļ

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde	Human TC∟₀	0.017 mg/L	0.5 days	Eye Lungs, Thorax, or Respiration Lacrimation Other changes	RTECS

## **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Chemical name	European Union		
Formaldehyde	Muta. 2		

Mixture invitro Data

No data available.

Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium fluoride	Cytogenetic analysis	Human fibroblast	20 mg/L	None reported	Positive test result for mutagenicity	RTECS
Methanol	DNA inhibition	Human lymphocyte	300 mmol/L	None reported	Positive test result for mutagenicity	RTECS

Mixture invivo **Data** 

No data available.

Substance invivo **Data** 

Test data reported below.

**Oral Exposure Route:** 

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Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium fluoride	Cytogenetic	Mouse	1 mg/L	3 weeks	Positive test result for	RTECS
	analysis				mutagenicity	
Methanol	DNA damage	Rat	0.405 mg/kg	None reported	Positive test result for	RTECS
					mutagenicity	

## Inhalation (Vapor) Exposure Route:

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Formaldehyde	Micronucleus test	Human	.000985 mg/L	8.5 years	Positive test result for mutagenicity	RTECS

#### Carcinogenicity

Based on available data, the classification criteria are not met.

Chemical name	European Union
Formaldehyde	Carc. 1B

Mixture No data available.

Substance Test data reported below.

## **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Mouse TD∟₀	14 mg/kg	43 weeks	Skin and Appendages Tumors	RTECS

## Inhalation (Vapor) Exposure Route:

	Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ī	Formaldehyde	Rat	15 mg/L	78 weeks	Olfaction Tumors	RTECS

## **Reproductive toxicity**

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

## **Oral Exposure Route:**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium fluoride	Rat TD∟₀	240 mg/kg	None reported	Specific Developmental Abnormalities Musculoskeletal system	RTECS
Methanol	Rat TD∟₀	4118 mg/kg	10 days	Effects on Embryo or Fetus Specific Developmental Abnormalities Ear Eye Fetotoxicity (except death e.g.	RTECS

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		stunted fetus)	
		Urogenital System	

#### Inhalation (Dust/Mist) Exposure Route:

Chem	nical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
		type	dose	time		sources for data
M	lethanol	Rat TC <sub>Lo</sub>	0.0026 mg/L	22 days	Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus)	RTECS

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde	Rat	40 mg/L	14 days	Effects on Embryo or Fetus	RTECS
	TCLo			Fetotoxicity (except death e.g.	
				stunted fetus)	

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### 11.2 Information on other hazards

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

**Mixture** 

Acute aquatic toxicity: No data available.

Aquatic Chronic Toxicity: No data available.

**Substance** 

Acute aquatic toxicity: Test data reported below.

Fish:

Chemical name	Exposure	Species	Endpoint type	Reported dose	Key literature references and
	time				sources for data
Sodium fluoride	96 hours	Channa punctatus	LC <sub>50</sub>	51 mg/L	GESTIS
Formaldehyde	96 hours	Morone saxatilis	LC <sub>50</sub>	6.7 mg/L	PEEN

## Crustacea:

Chemical name	Exposure	Species	Endpoint type	Reported dose	Key literature references and
	time				sources for data

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Sodium fluoride	48 Hours	Daphnia magna	EC <sub>50</sub>	98 mg/L	GESTIS
Formaldehyde	48 Hours	Daphnia pulex	EC50	5.8 mg/L	PEEN

Aquatic Chronic Toxicity: No data available.

12.2. Persistence and degradability

Mixture No data available.

12.3. Bioaccumulative potential

Mixture: No data available.

Partition coefficient Not applicable

12.4. Mobility in soil

Soil Organic Carbon-Water Partition

Not applicable

Coefficient

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment	
Formaldehyde	The substance is not PBT / vPvB	
Sodium fluoride	The substance is not PBT / vPvB	

#### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

## 12.7. Other adverse effects

No information available.

Ozone: Not applicable

Ozone depletion potential (ODP): No information available

## Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Advice on Disposal** 

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous

substances, including mixtures of laboratory chemicals; hazardous waste.

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**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

Other Information Do not reuse empty containers.

## **Section 14: TRANSPORT INFORMATION**

## **IMDG**

14.1 UN number or ID numberNot regulated14.2 Proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Marine pollutantNot applicable

**14.6 Special precautions for user** See section 6-8 for more information

14.7. Transport in bulk according to Not applicable

Annex II of MARPOL and the IBC

Code

#### **ADR**

14.1 UN number or ID numberNot regulated14.2 Proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing GroupNot regulated14.5 Environmental hazardsNot applicable

**14.6 Special precautions for user** See section 6-8 for more information

IATANot regulated14.1 UN number or ID numberNot regulated14.2 Proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

**14.6 Special precautions for user** See section 6-8 for more information

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## **Section 15: REGULATORY INFORMATION**

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

## **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Formaldehyde - 50-00-0	72.	
	28.	

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	75.	
Sodium fluoride - 7681-49-4	75.	

**Persistent Organic Pollutants** 

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Formaldehyde - 50-00-0	5	50

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### Germany

Water hazard class (WGK)

non-hazardous to water (nwg)

Chemical name	French RG number	Title
Formaldehyde	RG 43	-
50-00-0	RG 84	
	RG 5,RG 14,RG 15,RG	
	15bis,RG 20bis	
	RG 2,RG 9,RG 14,RG	
	20,RG 34,RG 65	
Sodium fluoride	RG 32	-
7681-49-4	RG 5,RG 14,RG 15,RG	
	15bis,RG 20bis	
	RG 20,RG 20bis,RG	
	26,RG 34,RG 65	

**International Inventories** 

**EINECS/ELINCS** Complies Complies **TSCA DSL/NDSL** Complies Complies **ENCS** Complies **IECSC** Complies **KECL - Existing substances** Complies **PICCS AICS** Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

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Chemical Safety Report Chemical safety assessments for substances in this mixture were not carried out.

## **Section 16: OTHER INFORMATION**

 Issue Date
 19-Dec-2008

 Revision Date
 14-Feb-2023

**Revision Note** New SDS, SDS sections updated, 3, 9, 11, 12.

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

#### Legend

\*\* Hazard Designation

ADN Accord européen relatif au transport international des marchandises dangereuses par voies

de navigation intérieure

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

CAS Chemical Abstracts Service Number

Ceiling Maximum limit value

CLP Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No.

1272/2008]

DNEL Derived No Effect Level (DNEL)

EC European Community

ECHA ECHA (The European Chemicals Agency)
EC50 Effective Concentration to 50% of a test population

EEC European Economic Community

EN European Standard

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

ICAO International Civil Aviation Organization

ICAO-TI International Civil Aviation Organization - Technical Instructions
IUCLID IUCLID (The International Uniform Chemical Information Database)
GHS Globally Harmonized System of Classification and Labelling of Chemicals

LOAEL Lowest observed adverse effect level

LOAEC Lowest observed adverse effect concentration LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
LOLI (List of Lists - An International Chemical Regulatory Database)

MAK Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit

value, which relates to safe daily exposure levels to chemical substances

NOAEL NOAEL (No observed adverse effect level)
NOAEC No observed adverse effect concentration

OSHA Occupational Safety and Health Administration of the US Department of Labour)

PEC Predicted Effect Concentration

PNEC Predicted No Effect Concentration (PNEC)

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No.

1907/2006])

RID Règlement international concernant le transport des marchandises dangereuses par chemin

de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

RTECS (Registry of Toxic Effects of Chemical Substances)

TWA TWA (time-weighted average)

SKN\* Skin designation SKN+ Skin sensitisation

STEL STEL (Short Term Exposure Limit)
STOT Specific Target Organ Toxicity

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STOT RE Specific target organ toxicity — repeated exposure STOT SE Specific target organ toxicity — single exposure

Substances of Very High Concern SVHC

Threshold Limit Value TLV

Technical rules for hazardous substances, Germany **TRGS** 

**TSCA** Toxic Substances Control Act

UN **United Nations** 

very persistent and very bioaccumulative vPvB

VOC Volatile organic compounds

AwSV Administrative regulation of water polluting substances, Germany

#### Key literature references and sources for data

See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION

#### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

## Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

Take note of Directive 98/24/EC on the protection of the health and safety of workers from **Training Advice** 

the risks related to chemical agents at work

Restrictions on use For Laboratory Use Only.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**End of Safety Data Sheet** 

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