

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 2 of 15, Revision date: 07/09/2023

Substances contained in this product:

Substance name	CAS n°	Index n°	EC n°
Formaldehyde	50-00-0	605-001-00-5	200-001-8
methanol	67-56-1	603-001-00-X	200-659-6

Hazard pictograms

GHS07-exclam



Signal word:

Warning

Hazard and precautionary statements:

Code	Hazard statments
H317	May cause an allergic skin reaction
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see ... on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to ...

2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. ;

Adverse human health effects and symptoms:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 3 of 15, Revision date: 07/09/2023

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

Substance name	CAS n°	Index n°	EC n°	Classification according Regulation (EC) No. 1272 [CLP]	Concentration (%)	SCL	M-factor
Formaldehyde	50-00-0	605-001-00-5	200-001-8	Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation Carcinogenicity - Carc. 1B - H350 Germ cell mutagenicity - Muta. 2 - H341 Respiratory/skin sensitization - Skin Sens. 1 - H317 Skin corrosion/irritation - Skin Corr. 1B - H314 Specific target organ toxicity - single exposure - STOT SE 3 - H335	< 5 %	STOT SE 3 H335: C ≥ 5 % Skin Corr. 1B H314: C ≥ 25 % Skin Irrit. 2 H315: 5 % ≤ C < 25 % Eye Irrit. 2 H319: 5 % ≤ C < 25 % Skin Sens. 1 H317: C ≥ 0,2 %	
methanol	67-56-1	603-001-00-X	200-659-6	Acute toxicity - Acute Tox. 3 - H301 - Oral Acute toxicity - Acute Tox. 3 - H311 - Dermal Acute toxicity - Acute Tox. 3 - H331 - Inhalation Flammable liquid - Flam. Liq. 2 - H225 Specific target organ toxicity - single exposure - STOT SE 1 - H370	< 1%	STOT SE 1 H370: C ≥ 10 % STOT SE 2 H371: 3 % ≤ C < 10 %	
potassium dihydrogenorthophosphate	7778-77-0		231-913-4		< 1%		

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended. ;

Following inhalation: In case of respiratory tract irritation, consult a physician. ;

Following skin contact: After contact with skin, wash immediately with water ;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. ;

Following ingestion: Do NOT induce vomiting. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date. ;

Effects:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 4 of 15, Revision date: 07/09/2023

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

5.3 Advice for fire-fighters

Wear Protective clothing. ;

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation. ;

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ;

6.3 Methods and material for containment and cleaning up

For cleaning up:Suitable material for taking up: Absorbing material, organic ;

Other information:

6.4 Reference to other sections

Additional information:

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures:

Advice on safe handling:Avoid contact with skin, eyes and clothes. ;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled. ;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ;

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels:Keep container tightly closed. ;

Hints on storage assembly:

Materials to avoid:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 5 of 15, Revision date: 07/09/2023

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet. ;

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Preliminary remark:

8.1.1 Occupational exposure limits:

- France

Source :		Informations relatives à la réglementation VME (France) : ED 984, 07.2012				
Substance	EC-No.	CAS-No	VLE (mg/m3)	VLE (ppm)	VME (mg/m3)	VME (ppm)
50-00-0 / 200-001-8	200-001-8	50-00-0		1		0,5
67-56-1 / 200-659-6	200-659-6	67-56-1	1300	1000	260	200
7778-77-0 / 231-913-4	231-913-4	7778-77-0				

- Spain

Source :		Limites de Exposicion Profesional para Agentes Quimicos en Espana Instituto Nacional de Seguridad e Higiene en el Trabajo June 2015				
Substance	EC-No.	CAS-No	VLA-EC (mg/m3)	VLA-EC (ppm)	VLA-ED (mg/m3)	VLA-ED (ppm)
50-00-0 / 200-001-8	200-001-8	50-00-0	0,37	0,3		
67-56-1 / 200-659-6	200-659-6	67-56-1			266	200
7778-77-0 / 231-913-4	231-913-4	7778-77-0				

- Germany

Source :		TRGS 900, June 2015, BAuA			
Substance	EC-No.	CAS-No	AGW (mg/m3)	AGW (ppm)	
50-00-0 / 200-001-8	200-001-8	50-00-0	0,37	0,3	
67-56-1 / 200-659-6	200-659-6	67-56-1	270	200	

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 6 of 15, Revision date: 07/09/2023

7778-77-0 / 231-913-4	231-913-4	7778-77-0		
-----------------------	-----------	-----------	--	--

- Italia
- Greece
- UK
- OSHA (USA)

Source :		Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000				
Substance	EC-No.	CAS-No	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm)	OSHA Permissible Exposure Limit (PEL) 8-hour TWA (mg/m3)	OSHA Permissible Exposure Limit (PEL) STEL (ppm)	OSHA Permissible Exposure Limit (PEL) STEL (mg/m3)
50-00-0 / 200-001-8	200-001-8	50-00-0	0,75		2	
67-56-1 / 200-659-6	200-659-6	67-56-1	200	260		
7778-77-0 / 231-913-4	231-913-4	7778-77-0				

8.1.2 Biological limit values (Germany):

Source :		List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs), June 2014			
Substance	EC-No.	CAS-No	BLV (mg/m3)	BLV (ppm)	
50-00-0 / 200-001-8	200-001-8	50-00-0			
67-56-1 / 200-659-6	200-659-6	67-56-1			
7778-77-0 / 231-913-4	231-913-4	7778-77-0			

8.1.3 Exposure limits at intended use (Germany):

Source :		TRGS 903, November 2015, BAuA		
Substance	EC-No.	CAS-No	BGW (mg/m3)	BGW (ppm)
50-00-0 / 200-001-8	200-001-8	50-00-0		
67-56-1 / 200-659-6	200-659-6	67-56-1		

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 7 of 15, Revision date: 07/09/2023

7778-77-0 / 231-913-4	231-913-4	7778-77-0	
-----------------------	-----------	-----------	--

8.1.4 DNEL/PNEC-values:

- DNEL worker

Source :	GESTIS – substance database								
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Long-term – dermal, systemic effects (mg/kg/day)	Acute – inhalation, local effects (mg/m3)	Acute – inhalation, systemic effects (mg/m3)	Long-term – inhalation, local effects (mg/m3)	Long-term – inhalation, systemic effects (mg/m3)
50-00-0 / 200-001-8	200-001-8	50-00-0				0.5-0.5	9-9		
67-56-1 / 200-659-6	200-659-6	67-56-1				260-260	260-260		
7778-77-0 / 231-913-4	231-913-4	7778-77-0					4.07-4.07		

- DNEL consumer

Source :	GESTIS – substance database								
Substance	EC-No.	CAS-No	Acute – dermal, local effects (mg/kg/day)	Long-term – dermal, local effects (mg/kg/day)	Long-term – dermal, systemic effects (mg/kg/day)	Acute – inhalation, local effects (mg/m3)	Acute – inhalation, systemic effects (mg/m3)	Long-term – inhalation, local effects (mg/m3)	Long-term – inhalation, systemic effects (mg/m3)
50-00-0 / 200-001-8	200-001-8	50-00-0							
67-56-1 / 200-659-6	200-659-6	67-56-1							
7778-77-0 / 231-913-4	231-913-4	7778-77-0							

DNEL remark:

- PNEC

Source :	INERIS																
Substance	EC-No.	CAS-No	PNEC AQUATIC									PNEC Sediment					
			freshwater			marine water			intermittent release			freshwater			marine water		
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)
50-00-0 / 200-001-8	200-001-8	50-00-0															
67-56-1 / 200-659-6	200-659-6	67-56-1															
7778-77-0 / 231-913-4	231-913-4	7778-77-0															

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 8 of 15, Revision date: 07/09/2023

Source :		INERIS													
Substance	EC-No.	CAS-No	Others												
			PNEC soil			PNEC sewage treatment plant			PNEC air			PNEC secondary poisoning			
			(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	(mg/L)	(mg/kg)	(ppm)	
50-00-0 / 200-001-8	200-001-8	50-00-0													
67-56-1 / 200-659-6	200-659-6	67-56-1													
7778-77-0 / 231-913-4	231-913-4	7778-77-0													

PNEC remark:

Control parameters remark:

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

8.2.2 Personal protective equipment:

Eye / Face protection: Safety glasses with side-shields ;

Skin protection:Gloves ;

Respiratory protection:Ensure adequate ventilation ;

Thermal hazards:

8.2.3 Environmental exposure controls:

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Liquid ;
Colour	Colorless ;
Odour	
Odour threshold (ppm)	

	Value	Concentration (mol/L)	Method	Temperature (°C)	Pressure (kPa)	Remark
pH	7					
Melting point (°C)						
Freezing point (°C)						
Initial boiling point/boiling range (°C)						
Flash point (°C)						
Evaporation rate (kg/m ² /h)						
Flammability (type :) (%)						
Upper/lower flammability or explosive limits	Upper explosive limit (%)					
	Lower explosive limit (%)					
Vapour pressure (kPa)						
Vapour density (g/cm ³)						
Densities	Density (g/cm ³)					
	Relative density (g/cm ³)					
	Bulk density (g/cm ³)					

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 9 of 15, Revision date: 07/09/2023

	Critical density (g/cm ³)					
Solubility (Type :) (g/L)						
Partition coefficient (log Pow) n-octanol/water at pH :						
Auto-ignition temperature (°C)						
Decomposition temperature (°C) Decomposition energy : kJ						
Viscosity	Viscosity, dynamic (poiseuille)					
	Viscosity, cinematic (cm ² /s)					
Oxidising properties						
Explosive properties						

9.2 Other information:

No other relevant data available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid:

10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses. ;

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- **Acute toxicity**

Animal data:

Acute oral toxicity:

Substance name	LD50 (mg/kg)	Species	Method	Symptoms / delayed effects	Remark
50-00-0 / 200-001-8	592-592	Rat			
67-56-1 / 200-659-6	17100-17100	Rabbit			

Acute dermal toxicity:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 10 of 15, Revision date: 07/09/2023

Substance name	LD50 (mg/kg)	Species	Method	Remark
50-00-0 / 200-001-8	10000-10000	Rabbit		
67-56-1 / 200-659-6		Rabbit		

Acute inhalative toxicity:

Substance name	C(E)L50 (mg/L)	Exposure time	Species	Method	Remark
50-00-0 / 200-001-8	1.07-1.07	4-4	Rat		May cause respiratory irritation.
67-56-1 / 200-659-6	131-131	4-4	Rat		

Practical experience / human evidence:

Assessment / Classification:

General Remark:

- **Skin corrosion/irritation**

Animal data:

Substance name	Species	Method	Exposure time	Result/evaluation	Score	Remark
50-00-0 / 200-001-8						Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

- **Eye damage/irritation**

Animal data:

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - Germ cell mutagenicity:

Animal data:

Substance name	NOEC	Cell type and organism	Method	Result / Evaluation	Remark
50-00-0 / 200-001-8		mammalian cells (with metabolic activation)		The result is positive	

Assessment / Classification:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 11 of 15, Revision date: 07/09/2023

- Carcinogenicity

Practical experience / human evidence:

Animal data:

Substance name	NOEC	Exposure route	Exposure time
50-00-0 / 200-001-8			

Other information:

Assessment / Classification:

- Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- **Specific target organ toxicity (single exposure)**
 - STOT SE 1 and 2

Animal data:

Substance name	NOEC	Exposure time	Species	Organs Impacted
67-56-1 / 200-659-6				

Other information:

- STOT SE 3

Practical experience / human evidence:

Substance name	NOEC
50-00-0 / 200-001-8	

Other information:

Assessment / Classification:

- **Specific target organ toxicity (repeated exposure)**

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

- **Aspiration hazard**

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 12 of 15, Revision date: 07/09/2023

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12 : ECOLOGICAL INFORMATION

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method) in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

Chronic (long-term) fish toxicity

Acute (short-term) toxicity to crustacea

Chronic (long-term) toxicity to crustacea

Acute (short-term) toxicity to algae and cyanobacteria

Toxicity to microorganisms and other aquatic plants / organisms

Assessment / Classification:

12.2 Persistence and degradability

Biodegradation:

Abiotic Degradation:

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 13 of 15, Revision date: 07/09/2023

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment options:Dispose of waste according to applicable legislation. ;

SECTION 14 : TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

UN No.	
UN Proper shipping name	
Transport hazard class(es)	
Hazard label(s)	
Packing group	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Land transport (ADR/RID)

Classification code ADR:	Special Provisions for ADR/RID:
Limited quantities for ADR/RID:	Excepted Quantities for ADR/RID:
Packing Instructions for ADR/RID:	Special packing provisions for ADR/RID:
Mixed packing provisions:	
Portable tanks and bulk containers Instructions:	
Portable tanks and bulk containers Special Provisions:	
ADR Tank Code:	ADR Tank special provisions:
Vehicle for tank carriage:	
Special provisions for carriage Packages:	
Special provisions for carriage Bulk:	
Special provisions for carriage for loading, unloading and handling:	
Special Provisions for carriage Operation:	
Hazard identification No:	Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant:	Subsidiary risk(s) for IMDG:
Packing provisions for IMDG:	Limited quantities for IMDG:
Packing instructions for IMDG:	IBC Instructions:
IBC Provisions:	IMO tank instructions:
UN tank instructions:	Tanks and bulk Provisions:
EmS :	Stowage and segregation for IMDG:
Properties and observations:	

Inland waterway transport (ADN)

Classification Code ADN:	Special Provisions ADN:
Limited quantities ADN:	Excepted quantities ADN:
Carriage permitted:	Equipment required:
Provisions concerning loading and unloading:	Provisions concerning carriage:
Number of blue cones/lights:	Remark:

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 14 of 15, Revision date: 07/09/2023

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:
 Passenger and Cargo Aircraft Limited Quantities Packing Instructions:
 Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity :
 Passenger and Cargo Aircraft Packaging Instructions :
 Passenger and Cargo Aircraft Maximal Net Quantity :
 Cargo Aircraft only Packaging Instructions : Cargo Aircraft only Maximal Net Quantity :
 ERG code: Special Provisions for IATA:

SECTION 15 : REGULATORY INFORMATION

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use: 50-00-0 / 200-001-8

67-56-1 / 200-659-6

SVHC :

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

National regulations

15.2 Chemical Safety Assessment:

For this mixture, no chemical safety assessment has been carried out

SECTION 16 : OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023

Modifications:

16.2 Other informations

16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See SECTION 2.1 (classification).

16.4 Relevant R-, H- and EUH-phrases (number and full text):

Code	Hazard statments
H225	Highly flammable liquid and vapour

according to Regulation (EC) No 1907/2006 (REACH)

Designation / Commercial name : HTRF Stabilization Buf. 1 - 200 mL 62SB1FDF

Version: UK, Page 15 of 15, Revision date: 07/09/2023

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H370	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)