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



	lation (EU) No. 2020/878		
Trade name : Revision date : Print date :	118710 - 5,5-Dimethylhydantoin 04/11/2022 12/12/2022	Version (Revision) :	2.0.0 (1.0.0
SECTION 1. Idonti	fication of the substance/mixture and	of the company/ up	dortoking
		or the company/ un	dertaking
I.1 Product identi 5,5-Dimethylhydar 5,5-Dimethylhydar	-	H No. : 01-2119432911-44-X	XXX
	tified uses of the substance or mixture		
Relevant ider	ntified uses		-
For manufacturing	, processing, laboratory or repacking use only.		
Uses advised			
	ose recommended.		
	supplier of the safety data sheet	ivo/downstroom	
user/distribu	nufacturer/importer/only representat tor)	ive/downstream	
DC Fine Cherr	-		
Street : 88 Hi			
	City: NW11 6DY London United Kingdom		
	+44 (0)20 7586 6800		
Telefax : +44			
	contact: info@dcfinechemicals.com		
1.4 Emergency te			
(Only available du	ing office hours; Monday-Friday; 08:00-18:00)		
SECTION 2: Hazar	ds identification		
2.1 Classification	of the substance or mixture		
Classification	according to Regulation (EC) No 1272	2/2008 [CLP]	
	assified as not hazardous according to regulation (EC)	No 1272/2008 [CLP].	
2.2 Label element	-		
	ording to Regulation (EC) No. 1272/20		
2.3 Other hazards	assified as not hazardous according to regulation (EC)	NO 1272/2008 [CLP].	
None			
SECTION 3: Compo	osition/information on ingredients		
3.1 Substances			
	: 5,5-Dimethylhydantoin		
EC No. : 201-051			
	2119432911-44-XXXX		
CAS No. : 77-71-			
Purity : 100 % [n	nass]		
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SECTION 4: First aid measures

4.1 Description of first aid measures

Due to the composition and type of the substances present in the product, no particular warnings are necessary. **Following inhalation**

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

In case of skin contact

Remove contaminated clothing.

After eye contact

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Following ingestion

Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed No known acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

Special protective equipment for firefighters

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For exposure control and individual protection measures, see section 8.

For non-emergency personnel

Follow established procedures.

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For emergency responders

Follow established procedures.

6.2 Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

For containment

Follow established procedures.

For cleaning up

Follow established procedures.

6.4 Reference to other sections

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The product does not require special handling measures, the following general measures are recommended: For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original.

Protective measures



Measures to prevent aerosol and dust generation

No special measures are necessary.

Environmental precautions

No special measures are necessary.

Specific requirements or handling rules

No special measures are necessary.

Advices on general occupational hygiene

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided. Keep away from oxidising agents and from highly acidic or alkaline materials. Store according to local legislation. Observe indications on the label. The product is not affected by Directive 2012/18/EU (SEVESO III).

Technical measures and storage conditions

Storage temperature :

Keep in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

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Revision date : Print date :	04/11/2022 12/12/2022		Version (Revision) :	2.0.0 (1.0.0
Hints on jo Storage clas 3 Specific end None	s (TRGS 510) :	13		
SECTION 8: Exp	osure controls	s/personal protection		
		ostances with Professional Exposure E Igical Limit Values.	nvironmental Limit Values.Th	e product does
.2 Exposure co	ontrols			
		clean protective clothing.		
-	rotection equi	ipment		
Eye/face	protection			
Eye glasses B Skin prote Hand prote	ection			
chemicals n substances. Body prote	nust be chosen as a	a function of the specific working place	e quality of the protective glove e concentration and quantity	
	ry protection	saiy.		
-	easures are necess	ary.		
Thermal h		- 1		
	easures are necess	ary.		
Environme	ntal exposure	controls		
No information	n available.			
SECTION 9: Phys	sical and chen	nical properties		
			•	
		sical and chemical propert	les	
Appearanc				
Safety char		(1012 bbs)	177	°C
	freezing point : point and boiling	(1013 hPa) (1013 hPa)	177 313	°C °C
range :				

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No data available

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Decomposition te Flash point :	mperature :	(1013 hPa)	No data available 193	°C	
Auto-ignition tem Lower explosion I Upper explosion li	imit :		No data available No data available No data available	C	
Vapour pressure :		(50 °C)	No data available		

Solvent separation test :	(20 °C)	not applicable		
Water solubility :	(20 °C)	140	g/l	
Fat solubility :	(20 °C)	No data available.		
pH :		No data available		
log P O/W :		-0.475		
				DIN-
Flow time :	(20 °C)	No data available		cup 4
				mm
Viscosity :	(20 °C)	No data available		
Relative vapour density :	(20 °C)	No data available		
Evaporation rate :		No data available		
Flammable solids :	No data available.			
Flammable gases :	No data available.			
Explosive properties :	No data available.			

9.2 Other information

Density :

None

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not present hazards by their reactivity.

10.2 Chemical stability

Stable under the recommended handling and storage conditions (see section 7).

(20 °C)

10.3 Possibility of hazardous reactions

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid

Avoid any improper handling.

10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products

No decomposition if used for the intended uses.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute oral toxicity

Parameter : Exposure route : Species : LD50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Oral Rat

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Effective dose :		5000 mg/kg	
Acute dermal toxi	city		
Parameter :		LD50 (5,5-Dimethylhydantoin; CAS No.: 77-71-4)	
Exposure route :		Dermal	
Species :		Rabbit	
Effective dose :		> 20000 mg/kg	
Corrosion			
Skin corrosion/irr	itation		
No information ava	ilable.		
Serious eye dama	ge/eye irritat	ion	
No information ava	ilable.		
Respiratory or	skin sensiti	isation	
No information avail			
CMR effects (ca	arcinogenic	city, mutagenicity and toxicity for reproduc	tion)
Carcinogenicity	2		*
No information ava	ilable.		
Germ cell mutage	nicity		
No information ava	ilable.		
Reproductive toxi	city		
No information ava	ilable.		
STOT-single ex	posure		
No information ava			
STOT-repeated			
No information ava	-		
Aspiration haza			
No information ava			
.2 Information on		rds	
No information availa	ble.		
CTION 12: Ecologi	cal informa	ation	
¹ Toxicity			
	1		
Aquatic toxicity) fish toxicity	1	
Aquatic toxicity Acute (short-term		LC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4)	
-			
Acute (short-term Parameter : Species :		Oncorhynchus mykiss (Rainbow trout)	
Acute (short-term Parameter : Species : Evaluation parame	ter :	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity	
Acute (short-term Parameter : Species : Evaluation parame Effective dose :	ter :	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time :		Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s)	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term		Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter :		Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4)	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter : Species :) toxicity to c	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Daphnia magna (Big water flea)	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter : Species : Evaluation parameter) toxicity to c	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Daphnia magna (Big water flea) Acute (short-term) toxicity to crustacea	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter : Species : Evaluation parame Effective dose :) toxicity to c	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Daphnia magna (Big water flea) Acute (short-term) toxicity to crustacea 6200 mg/l	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter : Species : Evaluation parameter) toxicity to c	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Daphnia magna (Big water flea) Acute (short-term) toxicity to crustacea	
Acute (short-term Parameter : Species : Evaluation parame Effective dose : Exposure time : Acute (short-term Parameter : Species : Evaluation parame Effective dose :) toxicity to c	Oncorhynchus mykiss (Rainbow trout) Acute (short-term) fish toxicity 972.2 mg/l 96 hour(s) crustacea EC50 (5,5-Dimethylhydantoin ; CAS No. : 77-71-4) Daphnia magna (Big water flea) Acute (short-term) toxicity to crustacea 6200 mg/l	

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	Parameter : Species :	ı) toxicity to	Activated sludge Acute (short-term) toxic > 1000 mg/l 3 hour(s) algae and cyanobacte IC50 (5,5-Dimethylhyd Pseudokirchneriella sub	ria lantoin ; CAS No. : 77-71-4) capitata	
	Evaluation parame Effective dose : Exposure time :		> 1000 mg/l 96 hour(s)	city to algae and cyanobacteria	
	Persistence and No information availa	ble.			
12.3	Bioaccumulative Parameter :	e potentia	Log KOW (5,5-Dimethylhy Partition coefficient n-octa	ydantoin ; CAS No. : 77-71-4) ınol/water (log value)	
12.4	Value : Mobility in soil No information availa	ble.	-0.475		
12.6	Results of PBT a This substance does Endocrine disru No information availa Other adverse e	not meet the l pting prop ble.	PBT/vPvB criteria of REAC	H, Annex XIII.	
	No information availa				
SEC	TION 13: Dispos	al conside	erations		
13.1	Appropriate disp Non-contaminate	official regulat ging dispo options sewers or wat osal / Produ containers m osal / Packa d packages m	tions. DSal verways. JCt hust be handled and elimin age hust be recycled or dispose	nated according to current local/national ed of. Packing which cannot be properly EC regarding waste management.	2
SEC	TION 14: Transp	ort inform	nation		
14.1	UN number No information availa	hle			
14.2	UN proper shipp		I		

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14.3 Transport hazard class(es)

No information available. 14.4 Packing group

No information available.

- 14.5 Environmental hazards
- No information available.

14.6 Special precautions for user None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code No information available.

SECTION 15: Regulatory information

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878

National regulations

Water hazard class

Class : nwg (Non-hazardous to water)

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM:	ASTM International, originally known as American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)
LC50:	Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)
IC50:	Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)
NOEL:	No Observed Effect Level (Maximum dose without effect)
DNEL:	Derived No Effect Level (Derived no-effect dose)
DMEL:	Derived Minimum Effect Level (Derived dose of minimal effect)
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50 (Lethal Dose for 50% of Individuals)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic

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RID:	Regulations concerning the internati	onal rail transport of Dangerous Goods	
STEL:	Short term exposure limit		
TLV:	Threshold limit value		
TWA:	Time Weighted Average		
UE:	European Union		

vPvB: Very persistent very bioaccumulative N.D.: Uvailable

N.A.: Not applicable

Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes

16.3 Key literature references and sources for data

16.4 Relevant H- and EUH-phrases (Number and full text) None

16.5 Training advice None

VwVwS.:

None

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.