according to Regulation (EC) No. 1907/2006

HARDENER 2053 B

Version	Revision Date:	SDS Number:
1.1	15.09.2022	400000012099



Enriching lives through innovation

Date of last issue: 07.09.2021 Date of first issue: 07.09.2021

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	: HARDENER 2053 B
Unique Formula Identifier (UFI)	: J7T4-T051-W00E-GTNF

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

Use of the	:	Hardener
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company Address	 Huntsman Advanced Materials (Europe)BVBA Everslaan 45 3078 Everberg Belgium
Telephone Telefax	: +41 61 299 20 41 : +41 61 299 20 40
E-mail address of person responsible for the SDS	: Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number	: Centres Antipoison et de Toxicov ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0 825 812 822 LYON: 04 72 11 69 11 MARSEILLE 04 91 75 25 25 NANCY: 03 83 32 36 36 PARIS: 01 40 05 48 48 RENNES: 02 99 59 22 22 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 EUROPE: +32 35 75 1234 France ORFILA: +33(0)14542595 ASIA: +65 6336-6011 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1800 786 152 New Zealand: 0800 767 437 USA: +1 800-424-9300	

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)				
Eye irritation, Category 2	H319: Causes serious eye irritation.			
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.			
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.			

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Warning

:

U U		
Hazard statements	:	 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements		Prevention:
Frecautionary statements	·	P261 Avoid breathing dust.P273 Avoid release to the environment.P280 Wear protective gloves/ eye protection/ face protection.
		Response:
		P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
		P337 + P313 If eye irritation persists: Get medical advice/
		attention.
		P391 Collect spillage.

Hazardous components which must be listed on the label:

dibenzoyl peroxide

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concent ration (% w/w)
dibenzoyl peroxide	94-36-0 202-327-6 617-008-00-0 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses.



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				open while rinsing. persists, consult a specialist.	
If swallowed		:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.		
	ost important symptoms ar None known.	nd e	effects, both acu	ite and delayed	
4.3 In	dication of any immediate	me	dical attention a	nd special treatment needed	
٦	Freatment	:	Treat symptoma	atically.	
SEC	TION 5: Firefighting meas	sur	es		
5.1 E	xtinguishing media				
S	Suitable extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical		
	Jnsuitable extinguishing nedia	:	: Exercise caution when using a high volume water jet as it may scatter and spread fire		
5.2 S	pecial hazards arising from	the	e substance or n	nixture	
Ę	Specific hazards during irefighting	:		n-off from fire fighting to enter drains or water	
	Hazardous combustion products	:	Metal oxides		
5.3 A	dvice for firefighters				
5	Special protective equipment or firefighters	:	Wear self-conta necessary.	ained breathing apparatus for firefighting if	
	Specific extinguishing nethods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
-					

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Keep in suitable.	, closed containers	for disposal.
	-			

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep container tightly closed in a dry and well-ventilated
areas and containers		place. Containers which are opened must be carefully
		resealed and kept upright to prevent leakage. Keep in properly
		labelled containers.



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Adv	vice on common storage		For incompatible SDS.	materials please refer to Section 10 of this
	commended storage perature	: :	2 - 18 °C	
	ther information on rage stability	: (Stable under norn	nal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
dibenzoyl peroxide	94-36-0	VME	5 mg/m3	FR VLE		
Further information	Indicative exp	Indicative exposure limits				
triiron tetraoxide	1317-61-9	VME	10 mg/m3 (Iron)	FR VLE		
Further information	Indicative exposure limits					

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzoic acid, C9-11- branched alkyl esters	Workers	Inhalation	Long-term systemic effects	181 mg/m3
	Workers	Dermal	Long-term systemic effects	206 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	53 mg/m3
	Consumers	Dermal	Long-term systemic effects	29 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	15,48 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzoic acid, C9-11-branched	Fresh water sediment	0,065 mg/kg dry
alkyl esters		weight (d.w.)
	Remarks: Assessment Factors	
	Oral	6667 mg/kg
	Remarks: Assessment Factors	

8.2 Exposure controls

Personal protective equipment

Eye/face protection

: Eye wash bottle with pure water



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		0,00	safety goggles hield and protective suit for abnormal processing
Hand Rema	protection arks	approved sta chemical pro necessary. 7	sistant, impervious gloves complying with an andard should be worn at all times when handling oducts if a risk assessment indicates this is The suitability for a specific workplace should be ith the producers of the protective gloves.
Skin a	and body protection		y protection according to the amount and no f the dangerous substance at the work place.
Resp	iratory protection	: No personal required.	respiratory protective equipment normally

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	black
Odour	:	none
Odour Threshold	:	No data is available on the product itself.
рН	:	No data is available on the product itself.
Melting point/freezing point	:	No data is available on the product itself.
Boiling point	:	No data is available on the product itself.
Flash point	:	No data is available on the product itself.
Flammability (solid, gas)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	:	No data is available on the product itself.
Vapour pressure	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	No data is available on the product itself.
Density	:	1,332 g/cm3
Solubility(ies) Water solubility	:	insoluble

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	Solubility in other solvents	: No data is avail	able on the product itself.

Partition coefficient: n- octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Decomposition temperature	: Decomposition energy (mass): 236 KJ/kg
Viscosity Viscosity, dynamic	: 58 000 mPa.s (25 °C)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions						
Hazardous reactions	:	Dust may form explosive mixture in air.				
10.4 Conditions to avoid Conditions to avoid	:	None known.				

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition : aluminium oxide products

SECTION 11: Toxicological information

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

Acute toxicity	
Components:	
dibenzoyl peroxide:	
Acute oral toxicity	 LD50 (Mouse, male and female): > 2 000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity



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٨			_	LOED (Dat male)	
A	ACULE II	halation toxicity	•	LC50 (Rat, male) Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The inhalation toxicity	h dust/mist
S	Skin co	prrosion/irritation			
<u>c</u>	Compo	nents:			
d	libenzo	oyl peroxide:			
	Species		:	Rabbit	
	/lethod Result		:	OECD Test Guide No skin irritation	eline 404
	looun		•		
S	Serious	s eye damage/eye irı	itati	ion	
<u>C</u>	Compo	nents:			
d	libenzo	oyl peroxide:			
	Species		:	Rabbit	
	/lethod Result			OECD Test Guide Irritating to eyes.	aine 405
				U	
F	Respira	atory or skin sensitis	satio	on	
<u>C</u>	Compo	nents:			
d	libenzo	oyl peroxide:			
		re routes	:	Skin	
	Species Assessi		÷	Mouse May cause sensit	isation by skin contact.
	/lethod		:	OECD Test Guide	eline 429
F	Result		:	Causes sensitisa	ion.
G	erm c	ell mutagenicity			
		nents:			
		oyl peroxide:			
		xicity in vitro	:	Metabolic activati	on: with and without metabolic activation
			•	Method: OECD T Result: negative	
				Metabolic activati Method: OECD T Result: negative	on: with and without metabolic activation est Guideline 471
G	Genoto	xicity in vivo	:	Cell type: Somati Application Route Dose: 0, 50, 100, Method: OECD T Result: negative	: Intraperitoneal injection 200 mg/kg b.w.

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<u>Con</u>	cinogenicity <u>nponents:</u> enzoyl peroxide:		
	lication Route osure time	: Mouse, male : Dermal : 104 weeks : negative	and female
Rep	roductive toxicity		
<u>Con</u>	nponents:		
	enzoyl peroxide: cts on fertility	Application R Dose: 0, 250, General Toxic General Toxic	male and female oute: Oral 500, 1,000 mg/kg b.w/ city - Parent: NOAEL: 500 mg/kg body weight city F1: NOAEL: 500 mg/kg body weight D Test Guideline 422
	cts on foetal elopment	General Toxic Development	00 or 1000 mg/kg/day city Maternal: NOAEL: 300 mg/kg body weight al Toxicity: NOAEL: 300 mg/kg body weight D Test Guideline 414
)T - single exposure lata available		
	PT - repeated exposure data available		
Rep	eated dose toxicity		
Con	nponents:		
Spe NOA App	AEL lication Route lber of exposures	: Rat, male and : > 100 mg/kg : Skin contact : 2 years : OECD Test G	
-	iration toxicity		
	lata available		
-	rmation on other hazar		
	ocrine disrupting prop duct:	erties	
	essment	considered to to REACH Ar	e/mixture does not contain components have endocrine disrupting properties according ticle 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher

Experience with human exposure No data available Toxicology, Metabolism, Distribution No data available Neurological effects No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:		
dibenzoyl peroxide:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0602 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,11 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EbC50 (Selenastrum capricornutum (green algae)): 0,0422 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (activated sludge): 35 mg/l Exposure time: 0,5 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10: 0,001 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211

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M-Fa toxici	ctor (Chronic aquatic ty)	:	10	
12.2 Pers	istence and degradabil	lity		
<u>Com</u>	ponents:			
dibe	nzoyl peroxide:			
Biode	egradability	:	Inoculum: activat Concentration: 4 Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	mg/l biodegradable. 68 %
12.3 Bioa	ccumulative potential			
Com	ponents:			
dibe	nzoyl peroxide:			
	ion coefficient: n- iol/water	:	log Pow: 3,2 (22 pH: 7,02 Method: OECD 1	°C) Fest Guideline 117
12.4 Mob	ility in soil			
Com	ponents:			
dibe	nzoyl peroxide:			
	bution among onmental compartments		Koc: 6309,57 Method: OECD 1	Fest Guideline 121
12.5 Resi	Ilts of PBT and vPvB a	sse	ssment	
Prod	uct:			
Asse	ssment	:	to be either persi	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prope	ertie	es	
Prod	uct:			
Asse	ssment	:	considered to ha to REACH Article	nixture does not contain components ve endocrine disrupting properties according e 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher
12.7 Othe	r adverse effects			
Prod	uct:			
	ional ecological	:		al hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods Product : Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number			
ADN	:	UN 3077	
ADR	:	UN 3077	
RID	:	UN 3077	
IMDG	:	UN 3077	
ΙΑΤΑ	:	UN 3077	
14.2 UN proper shipping name			
ADN	:	ENVIRONMENTALLY N.O.S. (DIBENZOYL PERO)	Y HAZARDOUS SUBSTANCE, SOLID, KIDE)
ADR	:	ENVIRONMENTALLY N.O.S. (DIBENZOYL PERO)	Y HAZARDOUS SUBSTANCE, SOLID, XIDE)
RID	:	ENVIRONMENTALLY N.O.S. (DIBENZOYL PERO)	Y HAZARDOUS SUBSTANCE, SOLID, XIDE)
IMDG	:	ENVIRONMENTALLY N.O.S. (DIBENZOYL PERO)	Y HAZARDOUS SUBSTANCE, SOLID, XIDE)
ΙΑΤΑ	:	Environmentally haza (DIBENZOYL PERO)	ardous substance, solid, n.o.s. XIDE)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	9	
ADR	:	9	
RID	:	9	

: 9

IMDG

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ΙΑΤΑ		: 9	
14.4 Pack	ing group		
Class	ng group ification Code rd Identification Number s	: III : M7 : 90 : 9	
Class Haza Label	ng group ification Code rd Identification Number s el restriction code	: III : M7 : 90 : 9 : (-)	
Class	ng group ification Code rd Identification Number s	: III : M7 : 90 : 9	
IMDC Packi Label EmS	ng group s	: III : 9 : F-A, S-F	
Packi aircra Packi	ng instruction (LQ) ng group	: 956 : Y956 : III : Miscellaneous	
Packi (pass Packi	(Passenger) ng instruction enger aircraft) ng instruction (LQ) ng group s	: 956 : Y956 : III : Miscellaneous	
14.5 Envir	onmental hazards		
ADN Enviro	onmentally hazardous	: yes	
ADR Enviro	onmentally hazardous	: yes	
RID Enviro	onmentally hazardous	: yes	
IMDG Marin	e pollutant	: yes	
	(Passenger) onmentally hazardous	: yes	
	(Cargo) onmentally hazardous	: yes	

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	1907/2006 (REACH), Article 57). Not applicable
Seveso III: Directive 2012/18/EU of the E1 European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	EN	VIRONMENTAL HAZARDS
Occupational Illnesses (R- : 44 461-3, France)		
Installations classified for the : 4510 protection of the environment (Environment Code R511-9)		

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:		
DSL	: All components of this product are on the Canadian DSL	
	. On the inventory, or in compliance with the inventory,	
AIIC	: On the inventory, or in compliance with the inventory	
NZIoC	: Not in compliance with the inventory	
ENCS	: On the inventory, or in compliance with the inventory	
	. On the inventory, of in compliance with the inventory	



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KECI		: On the invento	ry, or in compliance with the inventory
PICCS		: Not in compliar	nce with the inventory
15000		. On the invente	ry or in compliance with the inventory
IECS	J	: On the invento	ry, or in compliance with the inventory
TCSI		: On the invento	ry, or in compliance with the inventory
1031		. On the invento	ry, or in compliance with the inventory

TSCA	: On or in compliance with the active portion of the TSCA
	inventory

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements H241 H317 H319 H400 H410 Full text of other abbreviatio	 Heating may cause a fir May cause an allergic s Causes serious eye irrit Very toxic to aquatic life Very toxic to aquatic life 	kin reaction. ation.		
Aquatic Acute Aquatic Chronic Eye Irrit. Org. Perox. Skin Sens. FR VLE FR VLE	 Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Eye irritation Organic peroxides Skin sensitisation France. Occupational Exposure Limits Time Weighted Average 			
Further information Classification procedure:				
Eye Irrit. 2 Skin Sens. 1	H319 H317	Calculation method Calculation method		

H400

Aquatic Acute 1

16/17

Calculation method



according to Regulation (EC) No. 1907/2006

HARDENER 2053 B

Version	Revision Date: 15.09.2022	SDS Number:	Date of last issue: 07.09.2021
1.1		400000012099	Date of first issue: 07.09.2021
			Print Date 16.01.2024

Aquatic Chronic 1

H410

Calculation method

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