According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
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Print Date 18.06.2021

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

1.1 Product identifier

Trade name : ARADUR® 5052 CH

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 : Huntsman Advanced Materials (Europe)BVBA

Address : Everslaan 45

3078 Everberg

Belgium
Telephone : +41 61 299 20 41

Telefax : +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 : EUROPE: +32 35 75 1234

France ORFILA: +33(0)145425959

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 3 H331: Toxic if inhaled.

Acute toxicity, Category 3 H311: Toxic in contact with skin.

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated H373: May cause damage to organs through

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 3.0 17.06.2021 400001008730 Date of first issue: 01.12.2017

Print Date 18.06.2021

exposure, Category 2 prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects. Long-term (chronic) aquatic hazard,

Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms









Signal word Danger

Harmful if swallowed. Hazard statements H302

> Toxic in contact with skin or if inhaled. H311 + H331 Causes severe skin burns and eye damage. H314 May cause an allergic skin reaction. H317

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Prevention: Precautionary statements

> P260 Do not breathe mist or vapours. Avoid release to the environment. P273

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh

> air and keep comfortable for breathing. Immediately call a POISON CENTER/

doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

> with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

Hazardous components which must be listed on the label:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2,4,6-tris(dimethylaminomethyl)phenol

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

salicylic acid

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.

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.	Classification	Concent ration (% w/w)
	Registration number		
2,2'-dimethyl-4,4'-	6864-37-5	Acute Tox. 4; H302	>= 50 -
methylenebis(cyclohexylamine)	229-962-1	Acute Tox. 2; H330	< 70
	612-110-00-1	Acute Tox. 3; H311	
		Skin Corr. 1A; H314	
		Eye Dam. 1; H318	
		STOT RE 2; H373	
		(Liver, Kidney, Adrenal	
		gland, Heart, Blood)	
		Aquatic Chronic 2;	
		H411	
3-aminomethyl-3,5,5-	2855-13-2	Acute Tox. 4; H302	>= 30 -
trimethylcyclohexylamine	220-666-8	Acute Tox. 4; H312	< 50
	612-067-00-9	Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
		Aquatic Chronic 3;	
2.12	22.72.2	H412	
2,4,6-	90-72-2	Acute Tox. 4; H302	>= 3 - <
tris(dimethylaminomethyl)phenol	202-013-9	Skin Corr. 1C; H314	5
	603-069-00-0	Eye Dam. 1; H318	
salicylic acid	69-72-7	Acute Tox. 4; H302	>= 1 - <
	200-712-3	Eye Dam. 1; H318	3
	607-732-00-5	Repr. 2; H361d	

For explanation of abbreviations see section 16.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
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 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

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 : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon oxides

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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 : Neutralise with acid.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 3.0 17.06.2021 400001008730 Date of first issue: 01.12.2017

Print Date 18.06.2021

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.

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.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

eat or drink. When using do not smoke. Wash hands before

breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : Do not store near acids.

Recommended storage

temperature

2 - 40 °C

Further information on

storage stability

Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-dimethyl-4,4'- methylenebis(cyclohex ylamine)	Workers	Inhalation	Long-term systemic effects	0.6 mg/m3
	Workers	Inhalation	Long-term local effects	0.96 mg/m3
	Workers	Dermal	Long-term systemic effects	0.06 mg/kg
2,4,6- tris(dimethylaminomet hyl)phenol	Workers	Inhalation	Long-term systemic effects	0.53 mg/m3
	Workers	Inhalation	Acute systemic effects	2.1 mg/m3
	Workers	Dermal	Long-term systemic effects	0.150 mg/kg
	Workers	Dermal	Acute systemic effects	0.600 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.130 mg/m3
	Consumers	Inhalation	Acute systemic effects	0.130 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.075 mg/kg
	Consumers	Dermal	Acute systemic effects	0.075 mg/kg
	Consumers	Oral	Long-term systemic effects	0.075 mg/kg
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	Workers	Inhalation	Long-term local effects	0.073 mg/m3
	Workers	Inhalation	Acute local effects	0.073 mg/m3
	Consumers	Oral	Long-term systemic effects	0.526 mg/kg bw/day
salicylic acid	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Inhalation	Long-term local effects	5 mg/m3
	Workers	Dermal	Long-term systemic effects	2.3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4 mg/m3
	Consumers	Dermal	Long-term systemic effects	1 mg/kg bw/day

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

Consumers	Oral	Long-term systemic effects	1 mg/kg bw/day
Consumers	Oral	Acute effects, Short- term exposure	4 mg/kg bw/day

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

Substance name		Environmental Compartment	Value
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine)		Fresh water	0.4 mg/l
		Marine water	0.04 mg/l
		Freshwater - intermittent	0.046 mg/l
		Sewage treatment plant	1.6 mg/l
		Fresh water sediment	17.4 mg/kg
		Marine sediment	1.74 mg/kg
		Soil	4.56 mg/kg
2,4,6- tris(dimethylaminometh	hyl)phenol	Fresh water	0.046 mg/l
		Marine water	0.005 mg/l
Remarks:	Assessm	ent Factors	<u> </u>
		Sewage treatment plant	0.262 mg/l
	Assessm	ent Factors	
	- 1	Freshwater - intermittent	0.46 mg/l
		Soil	0.025 mg/kg
3-aminomethyl-3,5,5- trimethylcyclohexylamine		Fresh water	0.06 mg/l
	Assessm	Assessment Factors	
		Marine water	0.006 mg/l
	Assessm	ent Factors	
	- 1	Sewage treatment plant	3.18 mg/l
	Assessm	ent Factors	1
	,	Fresh water sediment	5.784 mg/kg dry weight (d.w.)
	Equilibriu	im method	
	•	Marine sediment	0.578 mg/kg dry weight (d.w.)
		Soil	1.121 mg/kg dry weight (d.w.)
salicylic acid		Marine water	0.02 mg/l
		Sewage treatment plant	162 mg/l
		Fresh water sediment	1.42 mg/kg dry

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

	weight (d.w.)
Marine sediment	0.142 mg/kg dry weight (d.w.)
Soil	0.166 mg/kg dry weight (d.w.)
Secondary Poisoning	

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be

discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Equipment should conform to EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : clear

Odour : slight

Odour Threshold : No data is available on the product itself.

pH : 11 - 12 (20 °C)

Concentration: 500 g/l

Melting point/freezing point : No data available

Boiling point : 135 °C

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

Flash point : 110 °C

Method: Pensky-Martens closed cup

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Burning rate : 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 : < 0.012 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 0.93 - 0.95 (25 °C)

Density : 0.93 - 0.95 g/cm3 (25 °C)

Solubility(ies)

Water solubility : partly soluble (20 °C)

Solubility in other solvents : No data is available 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 : > 200 °C

Viscosity

Viscosity, dynamic : 40 - 60 mPa.s (25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

9.2 Other information

Molecular weight : 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.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid None known.

10.5 Incompatible materials

Materials to avoid Strong acids

Strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition carbon dioxide products carbon monoxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : 634.9 mg/kg

Method: Calculation method

Acute inhalation toxicity -

Product

: Assessment: The substance/mixture is not toxic on inhalation

as defined by dangerous goods regulations.

Acute toxicity estimate: 0.7636 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity -

: Acute toxicity estimate : 455.12 mg/kg

Product Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Species: Rabbit

Assessment: Causes burns.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 1 to 4 hours of exposure

Species: synthetic macromolecular bio-barrier

Method: OECD Test Guideline 435

Result: Corrosive after 1 to 4 hours of exposure

salicylic acid: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Species: Rabbit Exposure time: 24 h Assessment: Corrosive

Method: OECD Test Guideline 405

Result: Corrosive

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rabbit Assessment: Corrosive Method: Other guidelines

Result: Corrosive

salicylic acid: Species: Rabbit

Assessment: Risk of serious damage to eyes.

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Test Type: Maximisation Test

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Exposure routes: Skin Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406 Result: Causes sensitisation.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

2,4,6-tris(dimethylaminomethyl)phenol:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

salicylic acid:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

: Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

: Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Concentration: 2 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Concentration: 1375 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

Result: negative

Test Type: reverse mutation assay Test system: Salmonella typhimurium

Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

2,4,6-tris(dimethylaminomethyl)phenol:

Genotoxicity in vitro : Conc

: Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Concentration: 2500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

salicylic acid:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella tryphimurium and E. coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Date of last issue: 10.06.2020 Revision Date: SDS Number: 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse (male and female)

Cell type: Bone marrow Application Route: Oral Dose: 500 mg/kg

Method: Directive 67/548/EEC, Annex V, B.12.

Result: negative

salicylic acid:

Genotoxicity in vivo Test Type: sister chromatid exchange assay

> Test species: Mouse (male) Cell type: Bone marrow Application Route: Oral Dose: 350 mg/kg

Method: OPPTS 870.5915

Result: negative

Test Type: sister chromatid exchange assay

Test species: Mouse (male) Cell type: Bone marrow

Application Route: Intraperitoneal injection

Dose: 20/50/100 mg/kg Method: OPPTS 870.5915

Result: negative

Test species: Mouse (male) Cell type: Bone marrow

Application Route: Intraperitoneal injection

Dose: 50/100/200 mg/kg

Method: OECD Test Guideline 475

Result: negative

Test species: Mouse (male) Cell type: Bone marrow Application Route: Oral

Dose: 350 mg/kg

Method: OECD Test Guideline 475

Result: negative

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

salicylic acid:

Species: Rat, male and female Application Route: Oral Exposure time: 24 month(s) Dose: 0,50,250,500,1000 mg/kg

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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Version Revision Date: SDS Number: Date of last issue: 10.06.2020 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

Frequency of Treatment: 7 daily

No observed adverse effect level: 500 mg/kg bw/day

Result: negative

Remarks: Information given is based on data obtained from similar substances.

Carcinogenicity -

: No data available

Assessment

Reproductive toxicity

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Effects on fertility Species: Rat, male and female

Application Route: Oral

Dose: 0, 15, 50 and 100 mg/kg/day Frequency of Treatment: 7 days/week

General Toxicity - Parent: No observed adverse effect level:

15 mg/kg body weight

General Toxicity F1: No observed adverse effect level: 15

mg/kg body weight

Method: OECD Test Guideline 422

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Remarks: No significant adverse effects were reported

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine): Effects on foetal : Species: Rat

Application Route: Oral development

Dose: 5, 15 and 45 mg/kg bw /day Frequency of Treatment: 7 days/week

General Toxicity Maternal: No observed adverse effect level: 5

mg/kg body weight

Developmental Toxicity: No observed adverse effect level: 45

mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Species: Rat, female Application Route: Oral

Dose: 10/50/250 milligram per kilogram

General Toxicity Maternal: No-observed-effect level: 50 mg/kg

body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

salicylic acid:

Species: Rabbit, female Application Route: Oral

Duration of Single Treatment: 3 - 13 d

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
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 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

250 mg/kg body weight

Method: OECD Test Guideline 414

Remarks: Information given is based on data obtained from

similar substances.

Components:

salicylic acid:

Reproductive toxicity - :

Assessment

: Some evidence of adverse effects on development, based on

animal experiments.

STOT - single exposure

No data available

STOT - repeated exposure

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Exposure routes: Ingestion

Target Organs: Liver, Kidney, Adrenal gland, Heart, Blood

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Species: Rat, male and female

NOEC: 12

Application Route: Inhalation Test atmosphere: vapour

Number of exposures: 5 days/week Method: OECD Test Guideline 413

Species: Rat, male and female

NOAEL: 2.5 mg/kg

Application Route: oral (gavage)

Exposure time: 3 months Number of exposures: 5 days/week

Dose: 2.5, 12, 60 mg/kg bw/day Method: OECD Test Guideline 408

Target Organs: Liver, Blood, Kidney, Adrenal gland, Heart

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Species: Rat, male and female

NOAEL: 60 mg/kg

Application Route: Ingestion

Exposure time: 90 d Dose: 20, 60, 160 mg/kg

Method: OECD Test Guideline 408

Target Organs: Kidney

Species: Rat, male and female

NOEC: 200

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
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 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
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Print Date 18.06.2021

Application Route: Inhalation Test atmosphere: dust/mist

Exposure time: 216 hNumber of exposures: 6h

Method: Subacute toxicity

Target Organs: respiratory tract irritation

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rat, male and female

NOEL: 15 mg/kg

Application Route: Ingestion

Exposure time: 1,032 hNumber of exposures: 7 d

Method: Subacute toxicity

salicylic acid:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: oral (feed)

Exposure time: 2 yrNumber of exposures: 7 d Dose: 0, 50, 250, 500, 1000 mg/kg bw

Method: Chronic toxicity

Remarks: Information given is based on data obtained from similar substances.

Species: Rat, female

NOEC: 700

Application Route: inhalation (vapour)

Exposure time: 7 h 4 WeeksNumber of exposures: 5 days/week

Dose: 635 mg/m3

Method: OECD Test Guideline 412

GLP: no

Remarks: Information given is based on data obtained from similar substances.

Repeated dose toxicity -

: No data available

Assessment

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : 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.

Experience with human exposure

General Information: No data available

Inhalation: No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
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Print Date 18.06.2021

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 22.4 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 4.57 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Other): 7.9 mg/l Exposure time: 72 h

Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC20 (activated sludge): 160 mg/l

Exposure time: 30 min Test Type: static test Method: ISO 8192

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 4 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 110 mg/l

Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 23 mg/l

End point: mortality
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 37 mg/l

EC10 (Desmodesmus subspicatus (green algae)): 11.2 mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

, ,

Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC10 (Pseudomonas putida): 1,120 mg/l

Exposure time: 18 h Test Type: static test Method: Measured

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 202 Remarks: No-observed-effect level

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 3.0 17.06.2021 400001008730 Date of first issue: 01.12.2017

Print Date 18.06.2021

Exposure time: 96 h Test Type: static test

Test substance: Fresh water

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Palaeomonetes vulgaris (Grass shrimp)): 718 mg/l

End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Test substance: Marine water

Toxicity to algae/aquatic

plants

: ErC50 (Desmodesmus subspicatus (green algae)): 84 mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 6.25 mg/l

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 201

salicylic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,370 mg/l

Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes Test substance: Fresh water Method: OECD Test Guideline 203

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 870 mg/l

Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 162 mg/l

Exposure time: 16 h
Test Type: static test

Test substance: Fresh water

Method: ISO

Remarks: Information given is based on data obtained from

similar substances.

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ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

Toxicity to daphnia and other : NOEC: 10 mg/l aquatic invertebrates

Exposure time: 21 d

(Chronic toxicity)

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

12.2 Persistence and degradability

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Inoculum: activated sludge Result: Not biodegradable Biodegradation: < 1 % Exposure time: 28 d

Method: OECD Test Guideline 302B

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Biodegradability : Test Type: aerobic

> Inoculum: activated sludge Concentration: 6.9 mg/l

Result: Not readily biodegradable.

Biodegradation: 8 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.A.

2,4,6-tris(dimethylaminomethyl)phenol:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 2 mg/l Result: Not biodegradable Biodegradation: 4 % Exposure time: 28 d

Method: OECD Test Guideline 301D

salicylic acid:

Biodegradability : Test Type: aerobic

> Inoculum: Mixture Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 88.1 %

Related to: Biochemical oxygen demand

Exposure time: 14 d

Method: OECD Test Guideline 301C GLP: No information available.

Test Type: aerobic

Inoculum: activated sludge, non-adapted

Result: Inherently biodegradable.

Biodegradation: > 90 %

Related to: Dissolved organic carbon (DOC)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

Exposure time: 4 d

Method: Directive 67/548/EEC, Annex V, C.9

GLP: no

12.3 Bioaccumulative potential

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine):

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 28 d

Bioconcentration factor (BCF): < 60 Test substance: Fresh water Method: flow-through test

Remarks: Does not bioaccumulate.

Partition coefficient: n-: log Pow: 2.3 (23 °C)

octanol/water pH: 10

Method: OECD Test Guideline 107

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n-: log Pow: 0.99 (23 °C)

octanol/water pH: 6.34

Method: OECD Test Guideline 107

2,4,6-tris(dimethylaminomethyl)phenol:

Partition coefficient: n-: Pow: >= 0.219 (21.5 °C)octanol/water log Pow: -0.66 (21.5 °C)

Method: OPPTS 830.7550

salicylic acid:

Partition coefficient: n-: log Pow: 2.25 (25 °C)

octanol/water Method: OECD Test Guideline 117

12.4 Mobility in soil

Components:

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine): Distribution among : Koc: 1195

environmental compartments

3-aminomethyl-3,5,5-trimethylcyclohexylamine: Distribution among : Koc: 928

environmental compartments

salicylic acid:

Distribution among : Koc: 35

environmental compartments Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

: This substance/mixture contains no components considered Assessment

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

12.7 Other adverse effects

Product:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

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

ADR : UN 2922
RID : UN 2922
IMDG : UN 2922
IATA : UN 2922

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, TOXIC, N.O.S.

(cycloaliphatic polyamine, ISOPHORONE DIAMINE)

RID : CORROSIVE LIQUID, TOXIC, N.O.S.

(cycloaliphatic polyamine, ISOPHORONE DIAMINE)

IMDG : CORROSIVE LIQUID, TOXIC, N.O.S.

(cycloaliphatic polyamine, ISOPHORONE DIAMINE)

IATA : Corrosive liquid, toxic, n.o.s.

(cycloaliphatic polyamine, ISOPHORONE DIAMINE)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: Date of last issue: 10.06.2020 SDS Number: 400001008730 3.0 17.06.2021 Date of first issue: 01.12.2017

Print Date 18.06.2021

14.3 Transport hazard class(es)

ADR 8 **RID** 8 **IMDG** 8 IATA 8

14.4 Packing group

ADR

Packing group Ш Classification Code CT1 Hazard Identification Number : 86 Labels 8 (6.1) Tunnel restriction code (E)

RID

Ш Packing group Classification Code CT1 Hazard Identification Number : 86 Labels 8 (6.1)

IMDG

Packing group Ш Labels 8 (6.1) **EmS Code** F-A, S-B

IATA (Cargo)

Packing instruction (cargo 855

aircraft)

Packing instruction (LQ) Y840 Packing group Ш

Labels Corrosive, Toxic

IATA (Passenger)

Packing instruction 851

(passenger aircraft)

: Packing instruction (LQ) Y840 Packing group Ш

Labels Corrosive, Toxic

14.5 Environmental hazards

Environmentally hazardous

yes

Environmentally hazardous yes

IMDG

Marine pollutant : yes(cycloaliphatic polyamine)

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

Version Revision Date: SDS Number: Date of last issue: 10.06.2020 3.0 17.06.2021 400001008730 Date of first issue: 01.12.2017

Print Date 18.06.2021

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 : Not applicable

(Annex XIV)

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

1907/2006 (REACH), Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H2 ACUTE TOXIC

E2 ENVIRONMENTAL

HAZARDS

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

AIIC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



ARADUR® 5052 CH

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 10.06.2020

 3.0
 17.06.2021
 400001008730
 Date of first issue: 01.12.2017

Print Date 18.06.2021

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

H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction. H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H361d : Suspected of damaging the unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure if swallowed.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Repr. : Reproductive toxicity Skin Corr. : Skin corrosion Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

Further information

Classification of the mixture: Classification procedure:

Acute Tox. 4	H302	Calculation method
Acute Tox. 3	H331	Calculation method
Acute Tox. 3	H311	Calculation method

Skin Corr. 1 H314 Based on product data or assessment Eye Dam. 1 H318 Based on product data or assessment

Skin Sens. 1 H317 Calculation method STOT RE 2 H373 Calculation method Aquatic Chronic 2 H411 Calculation method

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 Version
 Revision Date:
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