according to Regulation (EC) No. 1907/2006



# TALON M

Version Revision Date: SDS Number: This version replaces all previous versions.

1.1 11.03.2021 S00053810136

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

1.1 Product identifier

Trade name : TALON M

Design code : A22678A

Product Registration Number : IE/BPA 70662-1-005

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

Use of the : Rodenticide

Substance/Mixture

Recommended restrictions

on use

: professional use

1.3 Details of the supplier of the safety data sheet

Company : Syngenta Ireland Limited

Block 6 Cleaboy Business Park, Old Kilmeaden Road,

Waterford Ireland

Telephone : (051) 377203

Telefax : (051) 354748

E-mail address of person

responsible for the SDS

cropsales.ie@syngenta.com

1.4 Emergency telephone number

Emergency telephone : Syngenta +44 1484 538444

**number** Poisons Information Centre of Ireland

Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00

p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated H37

exposure, Category 2

H373: May cause damage to organs through

prolonged or repeated exposure.

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#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H373 May cause damage to organs (blood) through

prolonged or repeated exposure.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Hazardous components which must be listed on the label:

brodifacoum (ISO)

#### 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

Components

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		, ,
	Registration number		
brodifacoum (ISO)	56073-10-0	Acute Tox. 1; H300	>= 0.0025 - <
	259-980-5	Acute Tox. 1; H330	0.003
	607-172-00-1	Acute Tox. 1; H310	
		Skin Sens. 1B; H317	
		Repr. 1A; H360D	

according to Regulation (EC) No. 1907/2006



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Version Revision Date: SDS Number: This version replaces all previous versions. 11.03.2021 S00053810136 1.1 STOT RE 1; H372 (Blood) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 specific concentration limit Repr. 1A; H360D >= 0,003 % STOT RE 1; H372 >= 0,02 % STOT RE 2; H373 >= 0,002 - < 0,02 %

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : Take victim immediately to hospital.

Do NOT induce vomiting.

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

Symptoms : Symptoms of poisoning are typical of anticoagulants. In

severe cases there may be bruising, haematomas of the

joints, blood in the faeces and urine

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

Treatment : This product contains anticoagulants with an effect similar to

warfarin in that they act by interfering with the synthesis of

prothrombin.

The specific measure of effect is the prothrombin time. Note this may not become prolonged until 12-18 hours after

ingestion.

The specific antidote is vitamin K1 (Phytomenandione). Initially, antidote should be given by injection (10-20mg, or 0.25mg/kg for children), by slow intravenous infusion at a rate not exceeding 1mg/minute. In severe cases the use of fresh

frozen plasma may be required.

Maintenance treatment is given orally (40mg/day in divided

doses for adults; up to 20mg/day in divided doses for

children).

The prothrombin time and the haemoglobin should be monitored. Patients should be kept under medical supervision until the prothrombin time has been normal for 3 consecutive

days.

Oral treatment may need continuing for several months (20mg/day in divided doses for adults and up to 20mg/day in divided doses for children). (For animal cases the dose is 2-

5mg/kg).

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

fire.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during : As the product contains combustible organic components, fire

according to Regulation (EC) No. 1907/2006



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firefighting will produce dense black smoke containing hazardous

products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear full protective clothing and self-contained breathing

apparatus.

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

courses.

Cool closed containers exposed to fire with water spray.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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 : Contain spillage, pick up with an electrically protected vacuum

cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed

air.

Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

#### 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : No special protective measures against fire required.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and

according to Regulation (EC) No. 1907/2006



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animal feedingstuffs.

7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the

approval conditions laid down on the product label.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m3	IE OEL
		OELV - 8 hrs (TWA) (total (vapour and particles))	150 ppm 470 mg/m3	IE OEL
brodifacoum (ISO)	56073-10-0	TWA	0.002 mg/m3	Syngenta

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

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	30 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3

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

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.2 mg/kg
	Fresh water sediment	572 mg/kg
	Soil	50 mg/kg

#### 8.2 Exposure controls

#### **Engineering measures**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

according to Regulation (EC) No. 1907/2006



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Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection

: No special protective equipment required.

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove

does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be

measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical

breakthrough.

The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard

EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Dust impervious protective suit

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek

appropriate professional advice.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : solid Colour : blue

Odour : No data available

according to Regulation (EC) No. 1907/2006



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Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature

Decomposition temperature

No data available

pH : substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : No data available Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Density : No data available

Relative vapour density : No data available

Particle characteristics

Particle size : No data available

9.2 Other information

Explosives : No data available

Oxidizing properties : No data available

Evaporation rate : No data available

according to Regulation (EC) No. 1907/2006



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### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None reasonably foreseeable.

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

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

Information on likely routes of : Ingestion

exposure Inhalation

Skin contact Eye contact

**Acute toxicity** 

**Product:** 

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

#### **Components:**

brodifacoum (ISO):

Acute oral toxicity : LD50 (Rat, female): 0.561 mg/kg

LD50 (Rat, male): 0.418 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 0.00305 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

LC50 (Rat, male): 0.00486 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

according to Regulation (EC) No. 1907/2006



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Acute dermal toxicity : LD50 (Rat, male): 5.21 mg/kg

LD50 (Rat, female): 3.16 mg/kg

Skin corrosion/irritation

**Components:** 

brodifacoum (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

**Components:** 

brodifacoum (ISO):

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

**Components:** 

brodifacoum (ISO):

Test Type : Buehler Test Species : Guinea pig

Result : The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

**Components:** 

brodifacoum (ISO):

Germ cell mutagenicity-

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

**Components:** 

brodifacoum (ISO):

Carcinogenicity -

Assessment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Components:** 

brodifacoum (ISO):

Reproductive toxicity -

: Some evidence of adverse effects on development, based on

Assessment animal experiments.

according to Regulation (EC) No. 1907/2006



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STOT - repeated exposure

**Components:** 

brodifacoum (ISO):

Target Organs : Blood

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

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.

**Further information** 

**Components:** 

brodifacoum (ISO):

Remarks : Excessive exposure slows blood clotting time and can cause

bleeding, shock and death.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Components:** 

brodifacoum (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.45 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

0.27 mg/l

Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.01 mg/l

End point: Growth rate Exposure time: 72 h

M-Factor (Acute aquatic : 10

according to Regulation (EC) No. 1907/2006



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toxicity)

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 30 min

M-Factor (Chronic aquatic : 10

toxicity)

12.2 Persistence and degradability

**Components:** 

brodifacoum (ISO):

Biodegradability : Result: Not rapidly biodegradable

Stability in water : Degradation half life: ca. 300 d

Remarks: Persistent in water.

12.3 Bioaccumulative potential

**Components:** 

brodifacoum (ISO):

Bioaccumulation : Remarks: bioaccumulative

12.4 Mobility in soil

**Components:** 

brodifacoum (ISO):

Distribution among : Ren

Remarks: Low mobility in soil.

environmental compartments

Stability in soil : Dissipation time: 157 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : 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..

**Components:** 

brodifacoum (ISO):

Assessment : PBT substance.

12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components

according to Regulation (EC) No. 1907/2006



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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

No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with

chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or

incineration.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Waste Code : uncleaned packagings

15 01 10, packaging containing residues of or contaminated

by hazardous substances

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



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### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on : Not applicable

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic : Not applicable

pollutants (recast)

Regulation (EC) No 649/2012 of the European : Not applicable

Parliament and the Council concerning the export and

import of dangerous chemicals

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

Not applicable

### Other regulations:

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

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

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H300 : Fatal if swallowed.

H310 : Fatal in contact with skin.

H317 : May cause an allergic skin reaction.

H330 : Fatal if inhaled.

H360D : May damage the unborn child.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Repr. : Reproductive toxicity Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

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IE OEL : Ireland. List of Chemical Agents and Occupational Exposure

Limit Values - Schedule 1

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information** 

Classification of the mixture: Classification procedure:

STOT RE 2 H373 Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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