SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 *rev n°: 1* *Revision date: 27.01.2016*

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

_1.1 Product identifier

_Trade name: SIPCAFOL TOKIO
_kind of formulation: *Microgranule*

_Article number: *594202*
_Use *Fertilizer*
_kind of product: *EC Fertilizer - NPK fertiliser blend 9-54-6 with micronutrients*
_Registration number REACH *Not applicable.*
_1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant use: Agriculture.
_Application of the substance / the mixture *Fertilizer*

_1.3 Details of the supplier of the safety data sheet
_Manufacturer/Supplier:
SIPCAM S.p.A. - Via Vittorio Veneto, 81 - 26857 Salerano sul Lambro (LO) - Italy
TEL.: +39 0371 5961 - FAX +39 0371 71408
_1.4 Emergency telephone number:
Emergency phone: + 39 0371 5961 (24/24h)
For any questions regarding this MSDS please contact:
msds@sipcam.it

SECTION 2: Hazards identification

_2.1 Classification of the substance or mixture
_2.1.1 Classification according to Regulation (EC) No 1272/2008
The product is not classified according to the CLP regulation.

_2.2 Label elements
_Labelling according to Regulation (EC) No 1272/2008 *Void*
_Hazard pictograms *Void*
_Signal word *Void*
_Hazard statements *Void*
_Precautionary statements
P270 Do not eat, drink or smoke when using this product.
_Additional information:
Do not contaminate water with the product or its container.
_2.3 Other hazards
_Results of PBT and vPvB assessment
_PBT: *Not applicable*
_vPvB: *Not applicable*

SECTION 3: Composition/information on ingredients

_3.2 Chemical characterisation: Mixtures
_Description: *Mixture consisting of the following components.*

_Dangerous components:

_N° CAS	Designation	R-Phrases	%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate	Ox. Sol. 2, H272	0 - 29.99%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid	Repr. 1B, H360FD	0.30 - 5.49%

_SVHC	
10043-35-3	boric acid

_Additional information *For the wording of the listed risk phrases refer to section 16.*

(Contd. on page 2)

SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 rev n°: 1 Revision date: 27.01.2016

Trade name: SIPCAFOL TOKIO

(Contd. of page 1)

SECTION 4: First aid measures

_4.1 Description of first aid measures
_General information Instantly remove any clothing soiled by the product.
_After inhalation
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.
_After skin contact Instantly wash with water and soap and rinse thoroughly.
_After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
_After swallowing
Rinse out mouth without swallowing, do not induce vomiting.
Call a doctor immediately.
_4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
_4.3 Indication of any immediate medical attention and special treatment needed
Seek the advice of a Poison Control Centre
Treat symptomatically and supportively

SECTION 5: Firefighting measures

_5.1 Extinguishing media
_Suitable extinguishing agents
CO2, extinguishing powder. Fight larger fires with water spray or alcohol-resistant foam. Do not use a direct stream of water to extinguish.
_For safety reasons unsuitable extinguishing agents Avoid full water jet.
_5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
_5.3 Advice for firefighters
_Protective equipment:
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Wear full protective suit.
_Additional information
Keep upwind.
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

_6.1 Personal precautions, protective equipment and emergency procedures
Avoid causing dust.
Ensure adequate ventilation
Wear protective clothing.
Bring people out of danger.
_6.2 Environmental precautions:
Collect with suitable equipment and do not allow to enter drainage system, surface or ground water.
Do not allow to enter drainage system, surface or ground water.
_6.3 Methods and material for containment and cleaning up:
Collect mechanically.
Dispose of contaminated material as waste according to Section 13.
_6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 rev n°: 1 Revision date: 27.01.2016

Trade name: SIPCAFOL TOKIO

(Contd. of page 2)

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
The usual precautionary measures for handling chemicals shall be observed.
Wear personal protective equipments (PPE).
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and food.

***Handling** Avoid direct or indirect contact with the product. Do not eat, drink or smoke while working.*
***Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.*

7.2 Conditions for safe storage, including any incompatibilities
Storage
Protect from frost.
Store in a cool and ventilated place, away from heat source and direct sunlight without open sewage system.
Keep out the reach of children, unauthorized persons and animals. Keep away from food, drink and animal feedingstuffs.
***Requirements to be met by storerooms and containers:** Store only in unopened original containers.*
Information about storage in one common storage facility:
Store away from foodstuffs.
This product is not affected by Directive 2012/18/EU (Seveso III).
Further information about storage conditions:
Protect from humidity and keep away from water.
This product is hygroscopic.
Store between 5 and 35 °C.
7.3 Specific end use(s)
Fertilizer.
To be applied strictly for the uses described in the label.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
Provide a proper ventilation, especially for indoor workplaces.

8.1 Control parameters
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
10043-35-3 boric acid		
Inhalative	*DNEL Long-term*	*8.3 mg/m3 (workers)*
7757-79-1 potassium nitrate		
Oral	*DNEL Long-term*	*12.5 mg/kg bw/day (consumers)*
Dermal	*DNEL Long-term*	*20.8 mg/kg bw/day (workers)*
		12.5 mg/kg bw/day (consumers)
Inhalative	*DNEL Long-term*	*36.7 mg/m3 (workers)*
		10.9 mg/m3 (consumers)

PNECs	
10043-35-3 boric acid	
PNEC	*1.35 mg/l (fresh water)*
	9.1 mg/l (intermittent release in water)

(Contd. on page 4)

SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 rev n°: 1 Revision date: 27.01.2016

Trade name: SIPCAFOL TOKIO

(Contd. of page 3)

	1.35 mg/l (marine water)
7757-79-1 potassium nitrate	
PNEC	18 mg/l (sewage treatment plant) 0.45 mg/l (fresh water) 4.5 mg/l (intermittent release in water) 0.045 mg/l (marine water)

_Additional information: The lists that were valid during the compilation were used as basis.

_8.2 Exposure controls
_Personal protective equipment
_General protective and hygienic measures
The usual precautionary measures for handling chemicals shall be observed.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.
Do not eat, drink or smoke while working.
Keep away from foodstuffs, beverages and food.
_Breathing equipment: Use breathing protection in case of insufficient ventilation.
_Protection of hands:

Protective gloves (rubber or plastic).

_Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
_Eye protection: Safety glasses recommended during refilling.
_Body protection: Use protective suit.
_Boots Safety shoes

SECTION 9: Physical and chemical properties

_9.1 Information on basic physical and chemical properties
_General Information

_Appearance:	
Form:	Crystalline
Colour:	Green
_Odour:	Not available.
_pH-value:	4.11 ± 1 (10% sol.)
_Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not applicable.
_Flash point:	Not available.
_Inflammability (solid, gaseous)	Product is not inflammable.
_Ignition temperature:	Not determined
_Decomposition temperature:	Not determined.
_Self-inflammability:	Product is not selfigniting.
_Danger of explosion:	Product is not explosive.
_Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.

(Contd. on page 5)

SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 rev n°: 1 Revision date: 27.01.2016

Trade name: SIPCAFOL TOKIO

(Contd. of page 4)

_Oxidising properties	Not an oxidiser
_Vapour pressure:	Not applicable.
_Density	
Relative density	1.051 ± 0.050 g/cm³ (10% sol.)
Vapour density	Not applicable.
Evaporation rate	Not applicable.
_Solubility in / Miscibility with	
Water:	Soluble Solubility: 22% max
_Partition coefficient (n-octanol/water):	Not determined.
_Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
_9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

_10.1 Reactivity The product is not reactive under recommended handling conditions.
_10.2 Chemical stability Stable under the recommended handling and storage conditions (see section 7).
_Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
_10.3 Possibility of hazardous reactions No dangerous reactions are known.
_10.4 Conditions to avoid No further relevant information available.
_10.5 Incompatible materials: Avoid contact with bases.
_10.6 Hazardous decomposition products: None in standard storage conditions.

SECTION 11: Toxicological information

_11.1 Information on toxicological effects
_Acute toxicity Based on available data, the classification criteria are not met.

_LD/LC50 values that are relevant for classification:		
10043-35-3 boric acid		
Oral	LD50	3500-4100 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50 (4 h)	> 2 mg/l (rat)
7757-79-1 potassium nitrate		
Oral	LD50	3750 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rat)
Inhalative	LC50 (4 h)	> 0.527 mg/l (rat)

_Primary irritant effect:
_Skin corrosion/irritation Based on available data, the classification criteria are not met.
_Serious eye damage/irritation Based on available data, the classification criteria are not met.
_Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
_Subacute to chronic toxicity:
Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damages.
_Acute effects (acute toxicity, irritation and corrosivity) No further information available.
_CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)
_Germ cell mutagenicity Based on available data, the classification criteria are not met.

(Contd. on page 6)

SIPCAM

Safety data sheet
according to 1907/2006/EC, Article 31

print: 27.01.2016 rev n°: 1 Revision date: 27.01.2016

Trade name: SIPCAFOL TOKIO

(Contd. of page 5)

_Carcinogenicity Based on available data, the classification criteria are not met.
_Reproductive toxicity Based on available data, the classification criteria are not met.
_STOT-single exposure Based on available data, the classification criteria are not met.
_STOT-repeated exposure Based on available data, the classification criteria are not met.
_Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

_12.1 Toxicity

_Aquatic toxicity:	
10043-35-3 boric acid	
EC50 (72h)	40 mg/l (algae pseudokirchneriella subcapitata)
EC50 (96h)	456 mg/l (pimephales promelas)
EC50 (48h)	760 mg/l (daphnia magna)
7757-79-1 potassium nitrate	
EC50 (72h)	> 1700 mg/l (aquatic plants) (10 d)
EC50 (96h)	190 mg/l (fish)
EC50 (48h)	490 mg/l (daphnia magna)

_12.2 Persistence and degradability No further relevant information available.
_12.3 Bioaccumulative potential No further relevant information available.
_12.4 Mobility in soil No further relevant information available.
_Additional ecological information:
_General notes: Not known to be hazardous to water.
_12.5 Results of PBT and vPvB assessment
_PBT: None of the ingredients meets the classification requirements.
_vPvB: None of the ingredients meets the classification requirements.
_12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

_13.1 Waste treatment methods

Disposal according to national regulations.

_Uncleaned packagings:
_Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

_14.1 UN-Number	
_ADR,RID,ADN, ADN, IMDG, IATA	Void
_14.2 UN proper shipping name	
_ADR,RID,ADN, ADN, IMDG, IATA	Void
_14.3 Transport hazard class(es)	
_ADR,RID,ADN, ADN, IMDG, IATA	
_Class	Void

(Contd. on page 7)

SIPCAM

Safety data sheet
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Trade name: SIPCAFOL TOKIO

(Contd. of page 6)

_14.4 Packing group **_ADR,RID,ADN, IMDG, IATA**	Void
_14.5 Environmental hazards: **_Marine pollutant:**	No
_14.6 Special precautions for user	Not applicable.
_14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
_UN "Model Regulation":	Void

SECTION 15: Regulatory information

_15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
_15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
In case of emergency, contact your local Poison Centre through Global Health observatory data of the World Health Organization.
.

_Department issuing data specification sheet: Product safety department.
_Contact:
Product safety department
SIPCAM Stabilimento di Salerano sul Lambro (LO)
TEL.: +39 03715961 - FAX : +39 037171408
_H statements of components:
H272 May intensify fire; oxidiser.
H360FD May damage fertility. May damage the unborn child.
_Abbreviations and acronyms:
Ox. Sol. 2: Oxidising Solids, Hazard Category 2
Repr. 1B: Reproductive toxicity, Hazard Category 1B
_* Data compared to the previous version altered. 29.10.2014