

# SAFETY DATA SHEET

## Sika Boom®-420 Fire



Version  
1.0

Revision Date:  
10.06.2025

SDS Number:  
100000031488

Date of last issue: -  
Date of first issue: 10.06.2025

### Section 1: Identification

Product name : Sika Boom®-420 Fire

#### Manufacturer or supplier's details

Company : Sika (NZ) Ltd.  
85-91 Patiki Road  
Avondale  
Auckland AKL 1026

Telephone : +64 9 820 2900

Emergency telephone number : 0800 734 607

E-mail address : info@nz.sika.com

Telefax : +64 9 828 4091

#### Recommended use of the chemical and restrictions on use

Product use : Polyurethane foam

### Section 2: Hazard identification

#### GHS Classification

Aerosols : Category 1

Serious eye damage/eye irritation : Category 2

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ toxicity - repeated exposure : Category 2

#### GHS label elements

Hazard pictograms :



Signal word : Danger

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Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
P284 Wear respiratory protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage:

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Aromatic prepolymer, polyol-blend based	2484708-66-7	>= 50 -< 70
tris(2-chloro-1-methylethyl) phosphate	13674-84-5	>= 10 -< 20
dimethyl ether	115-10-6	>= 10 -< 20
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 1 -< 10
isobutane	75-28-5	>= 1 -< 10

## Section 4: First-aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

Most important symptoms and effects, both acute and : irritant effects  
sensitising effects

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delayed

Asthmatic appearance  
Allergic reactions  
Excessive lachrymation  
See Section 11 for more detailed information on health effects and symptoms.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

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### Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray jet  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)  
Chlorine compounds  
Bromine compounds

Specific extinguishing methods : Use water spray to cool unopened containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Hazchem Code : 2YE

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### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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### Section 7: Handling and storage

- Advice on protection against fire and explosion : Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Do not spray on a naked flame or any incandescent material.  
Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Follow standard hygiene measures when handling chemical products
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl ether	115-10-6	WES-TWA	400 ppm 766 mg/m <sup>3</sup>	NZ OEL
		WES-STEL	500 ppm 958 mg/m <sup>3</sup>	NZ OEL
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	WES-TWA (Inhalable Fraction and	0.02 mg/m <sup>3</sup> (NCO)	NZ OEL

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		Vapour)		
	Further information: Skin sensitiser, Respiratory sensitiser			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m <sup>3</sup> (NCO)	NZ OEL
isobutane	75-28-5	STEL	1,000 ppm	ACGIH

### Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection : 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.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- 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.

### Section 9: Physical and chemical properties

- Appearance : aerosol
- Colour : various
- Odour : No data available
- Odour Threshold : No data available
- pH : Not applicable substance/mixture reacts with water
- Melting point/ range / Freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : No data available
- Flammability (solid, gas) : Extremely flammable aerosol.

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Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	5100 hPa
Relative vapour density	:	No data available
Density	:	ca. 1.017 g/cm <sup>3</sup> (25 °C (77 °F))
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	209.5 g/l

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### Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	No data available
Hazardous decomposition products	:	No hazardous decomposition products are known.

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### Section 11: Toxicological information

#### Acute toxicity

Not classified due to lack of data.

#### Components:

##### **Aromatic prepolymer, polyol-blend based:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423

##### **Diphenylmethanediisocyanate, isomeres and homologues:**

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.49 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute toxicity estimate: 0.49 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Components:

##### **Aromatic prepolymer, polyol-blend based:**

Species : reconstructed human epidermis (RhE)  
Exposure time : < 1 h  
Method : OECD Test Guideline 439  
Result : No skin irritation

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### **Aromatic prepolymer, polyol-blend based:**

Species : Not tested on animals  
Result : Eye irritation  
Method : OECD Test Guideline 492

#### Respiratory or skin sensitisation

##### **Skin sensitisation**

May cause an allergic skin reaction.

##### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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### Components:

#### **Aromatic prepolymer, polyol-blend based:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Causes sensitisation.

### **Chronic toxicity**

#### **Germ cell mutagenicity**

Not classified due to lack of data.

### Components:

#### **Aromatic prepolymer, polyol-blend based:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: negative

### **Carcinogenicity**

Suspected of causing cancer.

### **Reproductive toxicity**

Not classified due to lack of data.

### **STOT - single exposure**

May cause respiratory irritation.

### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified due to lack of data.

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## Section 12: Ecological information

### **Ecotoxicity**

#### Components:

#### **Aromatic prepolymer, polyol-blend based:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

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Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility

### **Diphenylmethanediisocyanate, isomeres and homologues:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l  
Exposure time: 72 h

### **Persistence and degradability**

#### **Components:**

#### **Aromatic prepolymer, polyol-blend based:**

Biodegradability : aerobic  
Result: Not readily biodegradable.  
Biodegradation: 25 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

#### **Product:**

Additional ecological information : There is no data available for this product.

### **Global warming potential**

### **Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)**

#### **Components:**

#### **propane:**

20-year global warming potential: 0.072  
100-year global warming potential: 0.02  
500-year global warming potential: 0.006  
Atmospheric lifetime: 0.036 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

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### Section 13: Disposal considerations

#### Disposal methods

- Waste from residues : Send to a licensed waste management company.
- 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.  
Do not burn, or use a cutting torch on, the empty drum.

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### Section 14: Transport information

#### International Regulations

##### IATA-DGR

- UN/ID No. : UN 1950
- Proper shipping name : Aerosols, flammable
- Class : 2.1
- Packing group : Not assigned by regulation
- Labels : Flammable Gas
- Packing instruction (cargo aircraft) : 203
- Packing instruction (passenger aircraft) : 203

##### IMDG-Code

- UN number : UN 1950
- Proper shipping name : AEROSOLS
- Class : 2.1
- Packing group : Not assigned by regulation
- Labels : 2.1
- EmS Code : F-D, S-U
- Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### NZS 5433

- UN number : UN 1950
- Proper shipping name : AEROSOLS
- Class : 2.1
- Packing group : Not assigned by regulation
- Labels : 2.1
- Hazchem Code : 2YE
- Marine pollutant : no

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### 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.

## Section 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Not applicable  
Schedules of Toxic Chemicals and Precursors

### HSNO Approval Number

HSR002517  
not allocated

### Tolerable Exposure Limits (TEL)

Not applicable

### Environmental Exposure Limits (EEL)

Not applicable

### HSW Controls

Certified handler certificate not required.  
Tracking hazardous substance not required.  
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

### The components of this product are reported in the following inventories:

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

## Section 16: Other information

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### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / STEL : Short-term exposure limit  
NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average  
NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit  
ADG : Australian Dangerous Goods Code.  
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS : Chemical Abstracts Service  
DNEL : Derived no-effect level  
EC50 : Half maximal effective concentration

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GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

NZ / EN