



# Safety Data Sheet

## BOSS® 334 Minimal Expanding Foam Gun Grade

### Section 1. Identification

Product Identifier BOSS® 334 Minimal Expanding Foam Gun Grade

Synonyms 334KIT; 33424; 03866BR10; 043759901

Manufacturer Stock Numbers 03866BR10; 043759901

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

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### Section 2. Hazards Identification

Classification ACUTE TOXICITY - INHALATION - Category 4  
CARCINOGENICITY - Category 2  
EYE DAMAGE/IRRITATION - Category 2A  
FLAMMABLE AEROSOLS - Category 1  
HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD -  
Category 4  
SENSITIZATION - RESPIRATORY - Category 1  
SENSITIZATION - SKIN - Category 1  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3  
TOXIC TO REPRODUCTION - EFFECTS ON OR VIA LACTATION

Signal Word

Danger

Pictogram



Hazard Statements

Causes serious eye irritation  
Causes skin irritation  
Extremely flammable aerosol  
Harmful if inhaled  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause damage to organs through prolonged or repeated exposure.  
May cause harm to breast-fed children  
May cause long lasting harmful effects to aquatic life  
May cause respiratory irritation.  
Suspected of causing cancer.

Precautionary Statements

Response

Get medical advice/attention if you feel unwell.  
If exposed or concerned: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If medical advice is needed, have product container or label at hand.  
If on skin: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.

Prevention

Avoid breathing spray.  
Avoid contact during pregnancy/while nursing.  
Avoid release to the environment  
Contaminated work clothing must not be allowed out of the workplace.  
Do not eat, drink or smoke when using this product.  
Do not handle until all safety precautions have been read and understood.  
Do not spray on an open flame or other ignition source.  
In case of inadequate ventilation wear respiratory protection.  
Keep away from heat.  
Obtain special instructions before use.  
Pressurized container: Do not pierce or burn, even after use.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing.

Storage

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

## Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Additional information Contains isocyanates. May produce an allergic reaction.

Other information Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

## Section 3. Ingredients

CAS	Ingredient Name	Weight %
9016-87-9	Polymeric diphenylmethane diisocyanate	40% - 50%
115-10-6	Dimethyl ether	1% - 10%
13674-84-5	Trichorylpropylene Phosphate	1% - 10%
85535-85-9	alkanes, C14-17, chloro	1% - 10%
75-28-5	Isobutane	1% - 10%
74-98-6	Propane	< 5 %

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-Aid Measures

**General information** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation** Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

**After skin contact** If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.

**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing** Call for a doctor immediately.

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Foam CO <sub>2</sub> , sand, extinguishing powder. Do not use water.
Unsuitable Extinguishing Media	Water with full jet.
Special hazards arising from the substance or mixture	In case of fire, the following can be released: Nitrogen oxides (NO <sub>x</sub> ) Carbon monoxide (CO) Hydrogen cyanide (HCN)
Advice for firefighters	Protective equipment: Mouth respiratory protective device. Additional information: Cool endangered receptacles with water spray. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep away from ignition sources. Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away.
Environmental precautions	Do not allow to enter sewers/ surface or ground water. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
Methods and material for containment and cleaning up	Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## Section 7. Handling and Storage

Precautions for safe handling	Ensure that suitable extractors are available on processing machines Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
Information about fire - and explosion protection	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Requirements to be met by storerooms and receptacles	Store in a cool location. Observe official regulations on storing packagings with pressurized containers.
Information about storage in one common storage facility	Store away from oxidizing agents. Do not store together with acids. Do not store together with alkalis (caustic solutions).
Further information about storage conditions	Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Protect from humidity and water. Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

Specific end use(s)

No further relevant information available.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m <sup>3</sup>	N/A
Dimethyl ether	N/A	400 ppm	N/A
Trichorylpropylene Phosphate	N/A	N/A	N/A
alkanes, C14-17, chloro	N/A	N/A	N/A
Isobutane	1000 ppm	N/A	1000 ppm
Propane	1000 ppm TWA	1000 ppm PEL	N/A

Personal Protective Equipment

Goggles, Gloves

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Tightly sealed goggles

## Section 9. Physical and Chemical Properties

Physical State

Aerosol

Color	According to product specification
Odor	Characteristic
Odor Threshold	N/A
Solubility	Insoluble in water
Partition coefficient Water/n-octanol	N/A
VOC%	20% (by wt) 189 g/L
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	-21C
FP Method	N/A
pH	N/A
Melting Point	Undetermined
Boiling Point	Undetermined
Boiling Range	N/A
LEL	3
UEL	18.6
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	Product is not selfigniting
Vapor Pressure	N/A
Vapor Density	N/A

**Note**

The above information is not intended for use in preparing product specifications. Contact Soudal Accumetric before writing specifications.

## **Section 10. Stability and Reactivity**

Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	Carbon monoxide Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid)

## Section 11. Toxicological Information

Primary irritant effect	on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect.
Sensitization	Sensitization possible through inhalation. Sensitization possible through skin contact.
Additional toxicological information	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Irritant
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	Carc. 2, Lact.

## Section 12. Ecological Information

Aquatic toxicity	No further relevant information available.
Persistence and degradibility	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.
Other adverse effects	No further relevant information available.

## Section 13. Disposal

Waste treatment methods Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Uncleaned packagings	Disposal must be made according to official regulations.

## Section 14. Transport Information

UN Number	1950
UN Proper Shipping Name	ADR: 1950 AEROSOLS IMDG: AEROSOLS IATA: AEROSOLS, flammable
DOT Classification	ADR Class 2 5F Gases. Label 2.1 IMDG, IATA Class 2.1 Label 2.1
Packing Group	ADR, INDG, IATA: Void
Marine Pollutant	No
Special precautions for user	Warning: Gases EMS Number: F-D, S-U

Transport in bulk according to  
Annex II of MARPOL73/78  
and the IBC  
Code

## Section 15. Regulatory Information

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

No further relevant information available.

Chemical safety  
assessment

A Chemical Safety Assessment has not been carried out.

## Section 16. Other Information

Revision Date

1/3/2018

Disclaimer

The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.