



BLUE DIAMOND STL
GLOBAL REACH, PERSONAL SERVICE

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015 and Regulation (EC) No 1272/2008

ProSolve™ Bitumen Cold Joint Sealer (750ml)

Revision Date: 12/10/2020 / Version: 2

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

1.1. Product identifier

Trade Name: ProSolve™ Bitumen Cold Joint Sealer Aerosol

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

Identified Uses: Used for roads, potholes etc

1.3. Details of the supplier of the safety data sheet

Company Name: Blue Diamond STL

Company Address: Sandall Stones Road, Kirk Sandall Industrial Estate, Doncaster, South Yorkshire,
DN3 1QR

Tel: +44 (0) 1302 310 113

E-mail: enquiries@bdstl.com

Web: www.bdstl.com

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Not classified.

2.2. Label elements Hazard pictograms:

Hazard pictograms: N/A

Signal word: N/A

Hazard statements:

None

Precautionary statements:

None

2.3. Other hazards Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / Information On Ingredients

Description

A mixture of zinc, additives, solvents and gases.

3.1. Substances N/A

3.2. Mixtures Description: Hazardous Ingredients

Chemical Name	Common name	CAS Number	EC Number	Concentration
Asphalt	Bitumen	8052-42-4	232-490-9	35%
Dimethyl ether	Dimethyl Ether	115-10-6	204-065-8	22%
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	Talc Powder	14807-96-6	238-877-9	12%
Petroleum resins	Petroleum Resin	64742-16-1	265-116-8	7%
poly(chloroprene) macromolecule	Chloroprene	9010-98-4	618-463-8	9%
Solvent naphtha (petroleum), heavy arom.	Solvent Naphtha	64742-94-5	265-198-5	10%
none	Mesitylene	2768-92-5	none	5%

SECTION 4: First Aid Measures

4.1. Description of first aid measures

General information:

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

Inhalation:

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Skin Problem:

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Eye:

Rinse with pure water for at least 15 minutes. Consult a doctor.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Centre immediately.

4.2. Most important symptoms and effects, both acute and delayed: No data available.

4.3. Indication of any immediate medical attention and special treatment needed: No information available.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable: Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture: no data available

5.3. Advice for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Avoid dust formation.
Avoid breathing mist, gas or vapours.
Avoid contacting with skin and eye.
Use personal protective equipment.
Wear chemical impermeable gloves.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.

6.2. Environmental protection measures

Avoid dust formation.
Avoid breathing mist, gas or vapours.
Avoid contacting with skin and eye.
Use personal protective equipment.
Wear chemical impermeable gloves.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.

6.3. Methods and material for containment and cleaning up

Collect and arrange disposal.
Keep the chemical in suitable and closed containers for disposal.
Remove all sources of ignition.
Use spark-proof tools and explosion-proof equipment.
Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4. Reference to other sections:

For disposal suggestions see section 13. For exposure controls / personal protection suggestions see section 8.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on Safety Handling:

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2. Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

Name	CAS No.	Limit value - Eight hours mg/m ³	Limit value - Short term mg/m ³
Bitumen	8052-42-4	5	10
Dimethyl Ether	115-10-6	766	958
Talc Powder	14807-96-6	1 respirable aerosol	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Short-term: filter apparatus, filter AX, otherwise environment-independent breathing apparatus.

Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU)

Skin protection

Wear fire/flare resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

Thermal hazards

no data available

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

Eye protection

Tightly fitting goggles

Other protection measures

Protective clothing

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Solid

Odour: no data available

Colour: Black

pH (20°C): Not determined

Boiling Point: > 320 °C. Atm. press.:Ca. 101.325 kPa.

Remarks: Atmospheric pressure assumed, not stipulated in citation.; > 500 °C. Atm. press.:Ca. 101.325 kPa. Remarks: For hard bitumen. Atmospheric pressure assumed, not stipulated in citation.

Melting point / Freezing point: 128 °C. Atm. press.:Ca. 101.3 kPa.

Remarks: Atmospheric pressure assumed, not stipulated in citation.

Flash point: > 180 °C. Atm. press.:Ca. 101.325 kPa.

Vapourisation rate: Not determined

Flammable (solid): Not determined

Flammability (gas): Not determined

Ignition temperature: Not determined

Self ignition temperature: 490 °C. Atm. press.:Ca. 101.325 kPa. Remarks:For Asphalt.;430 °C.

Atm. press.:Ca. 101.325 kPa. Remarks: For HFO (Visbreaking Residue).; >= 410 - <= 440 °C. Atm. press.:Ca. 101.325 kPa. Remarks: For Residue (Vacuum Distillation).

Lower explosion limit: Not determined

Upper explosion limit: Not determined

Vapour pressure: < 0.1 kPa. Temperature:Ca. 20 °C.

Relative density: >= 0.925 - <= 1.07. Temperature:15 °C.

Vapour density: Not determined

Solubility in water: Not determined

Solubility/other: Not determined

Partition coefficient n- octanol/water (log P O/W): Not determined

Decomposition temperature: Not determined

Viscosity dynamic: mm²/s (kinematic) = <= 1 382. Temperature:60.0°C.

Remarks: Penetration grade bitumen.;mm²/s (kinematic) = >= 1 981 - ca. 2 552. Temperature:100.0°C. Remarks:Penetration grade bitumen.;mm²/s (kinematic) = >= 0 - <= 3 210. Temperature:135.0°C. Remarks:Hard grade bitumen.

Viscosity kinematic: Not determined

Oxidising properties: Not determined

No information available.

Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information: No further relevant information available

SECTION 10: Stability and Reactivity

10.1. Reactivity: No data available

10.2. Chemical stability: No data available

10.3. Possibility of hazardous reactions: No data available

10.4. Conditions to avoid: No data available

10.5. Incompatible materials: No data available

10.6. Hazardous decomposition products: No data available

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	Rat		
LD50 acute dermal	> 2000 mg/kg	Rabbit		
LC50 acute inhalation	> 94.4 mg/l	Rat		

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological Information

12.1. Toxicity

- Toxicity to fish: LL50 - *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*) - > 1 000 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: LL50 - *Daphnia magna* - > 1 000 mg/L - 48 h.
- Toxicity to algae: EL50 - *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*) - > 1 000 mg/L - 72 h.
- Toxicity to microorganisms: LL50 - *Tetrahymena pyriformis* - > 1 000 mg/L - 40 h.

12.2. Persistence and degradability: No information available.

12.3. Bioaccumulative potential: No information available.

12.4. Mobility in soil: No information available.

12.5. Results of PBT and vPvB assessment: No information available.

12.6. Other adverse effects: No information available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning.

Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport Information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number:	1950	1950	
14.2. UN proper shipping name:	AEROSOLS	AEROSOLS	AEROSOLS,
14.3. Transport hazard class(es):	2	2	2.
14.4. Packing group:	-	-	-
14.5. Environmental hazards:	No	No	No

14.6. Special precautions for user

No information available

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:

Not applicable

SECTION 15: Additional Regulatory Information

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

Chemical Name	Common names and synonyms	CAS number	EC number
Asphalt	Bitumen	8052-42-4	232-490-9
Dimethyl ether	Dimethyl ether	115-10-6	204-065-8
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	Talc Powder	14807-96-6	238-877-9

Petroleum resins	Petroleum resins	64742-16-1	265-116-8
poly(chloroprene) macromolecule	Chloroprene	9010-98-4	618-463-8
Solvent naphtha (petroleum), heavy arom.	Solvent Naphtha	64742-94-5	265-198-5
none	Mesitylene 2768-92-5	2768-92-5	none

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other Information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

Key literature references and sources for data

IPCS - The International Chemical Safety Cards (ICSC), website:

<http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website:

<https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:

<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website:

<http://www.dguv.de/ifa/gestis/gestisstoffdatenbank/>

index-2.jsp

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU- directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Issued By: Blue Diamond STL

OUR BRANDS



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