

SAFETY DATA SHEET

7778 Hard-Hat® Bar-B-Q-Black

1. Identification of the preparation and of the company

Product name and/or code : 7778 Hard-Hat® Bar-B-Q-Black
Product use : Andrews Coatings Ltd. Carver Building, Littles Lane
Manufacturer : Wolverhampton, West Midlands, WV1 1JY
 Telephone Number: 01902 429190, Fax Number: 01902 426574
Emergency phone: : Email: sales@andrewscoatings.co.uk

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

| Chemical name* | CAS no. | % | EC nr. | Classification |
|--|------------|---------|-----------|--|
| United Kingdom (UK) | | | | |
| Dimethyl ether | 115-10-6 | 25 - 50 | 204-065-8 | F+; R12 |
| Xylene (mixture of isomeres) | 1330-20-7 | 10 - 25 | 215-535-7 | R10 Xn; R20/21 Xi; R38 |
| Naphtha (petroleum), hydrodesulfurized heavy | 64742-82-1 | 5 - 10 | 265-185-4 | R10 Xn; R65 R66 N; R51/53 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0 - 1 | 202-436-9 | R10 Xn; R20 Xi; R36/37/38 N; R51/53 |
| See section 16 for the full text of the R-phrases declared above | | | | |

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

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : F+; R12
 Xn; R20/21
 Xi; R38
 R52/53

Physical/chemical hazards : Extremely flammable.

Human health hazards : Harmful by inhalation and in contact with skin. Irritating to skin.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional warning phrases : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

4. First aid measures

First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
metal oxide/oxides

6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Comply with the health and safety at work laws.

- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidizing agents, strong alkalis, strong acids.

No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains.

8. Exposure controls/personal protection

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

| <u>Ingredient name</u> | <u>Occupational exposure limits</u> |
|------------------------------|--|
| United Kingdom (UK) | |
| Dimethyl ether | EH40-WEL (United Kingdom (UK), 1/2005). STEL: 958 mg/m ³ , 0 times per shift, 15 minute(s). Form: All forms STEL: 500 ppm, 0 times per shift, 15 minute(s). Form: All forms TWA: 766 mg/m ³ , 0 times per shift, 8 hour(s). Form: All forms TWA: 400 ppm, 0 times per shift, 8 hour(s). Form: All forms |
| Xylene (mixture of isomeres) | EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 441 mg/m ³ 15 minute(s). Form: All forms STEL: 100 ppm 15 minute(s). Form: All forms |

8. Exposure controls/personal protection

| | |
|--|---|
| Naphtha (petroleum), hydrodesulfurized heavy | TWA: 220 mg/m ³ 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms EH40-WEL (United Kingdom (UK), 6/2005). Notes: as Turpentine (150 ppm) STEL: 850 mg/m ³ , 0 times per shift, 15 minute(s). EH40-WEL (United Kingdom (UK), 6/2005). Notes: as Turpentine (100 ppm) |
| 1,2,4-Trimethylbenzene | TWA: 566 mg/m ³ , 0 times per shift, 8 hour(s). EH40-WEL (United Kingdom (UK), 1/2005). TWA: 125 mg/m ³ 8 hour(s). TWA: 25 ppm 8 hour(s). |

Exposure controls

Occupational exposure controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

: Recommended: organic vapor (Type AX) and particulate filter (EN 140) .

Hand protection

: >8 hours (breakthrough time): For prolonged or repeated handling, use the following type of gloves: nitrile rubber (EN 374-1)

Eye protection

: Recommended: safety glasses with side-shields (EN 166) .

Skin protection

: Recommended: Overalls buttoned to the neck and wrist. (EN 1149-1) .

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. Physical and chemical properties

| | |
|-------------------------|-----------------------------|
| Physical state | : Liquid. [Aerosol.] |
| Odor | : Hydrocarbon. |
| Color | : Black. |
| Flash point | : Closed cup: -40°C (-40°F) |
| Explosion limits | : Lower: 3% Upper: 18% |
| Vapor pressure | : 420 kPa (3150.26 mm Hg) |
| Vapor density | : >1 [Air = 1] |
| Volatility % | : 79% (w/w) |
| VOC content w/w | : 663 (g/l). |
| Relative density | : 0.84 |

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

11. Toxicological information

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------------------|---------|--------------------------|-----------|
| Dimethyl ether | LC50 Inhalation Gas. | Rat | 308000 mg/m ³ | 1 hours |
| | LC50 Inhalation Gas. | Mouse | 386 ppm | 0,5 hours |
| Xylene (mixture of isomeres) | LD50 Dermal | Rabbit | >1700 mg/kg | - |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 5000 ppm | 4 hours |
| Naphtha (petroleum), hydrodesulfurized heavy | LD50 Dermal | Rabbit | >3000 mg/kg | - |
| | LD50 Oral | Rat | >6500 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | >14 mg/L | 4 hours |
| 1,2,4-Trimethylbenzene | LD50 Oral | Rat | 5000 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details.

Aquatic ecotoxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|--|-----------|---------------------------|---|----------|
| Xylene (mixture of isomeres) | Mortality | Acute LC50 13,4 mg/L | Fish - Fathead minnow (pimephales promelas) | 96 hours |
| | Mortality | Acute LC50 12 mg/L | Fish - Bluegill sunfish (lepomis macrochirus) | 96 hours |
| | Mortality | Acute LC50 8,2 mg/L | Fish - Rainbow trout (oncorhynchus mykiss) | 96 hours |
| Naphtha (petroleum), hydrodesulfurized heavy | - | Acute EC50 4 to 10 mg/L | Daphnia | 48 hours |
| | - | Acute IC50 10 to 100 mg/L | Algae | 72 hours |
| | - | Acute LC50 10 to 100 mg/L | Fish | 96 hours |
| 1,2,4-Trimethylbenzene | - | Acute EC50 30 mg/L | Daphnia | 48 hours |
| | Mortality | Acute LC50 7,72 mg/L | Fish - Fathead minnow (pimephales promelas) | 96 hours |

Ecological information

Biodegradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|------------------------------|------|-------------------------|------|----------|
| Xylene (mixture of isomeres) | - | 90 % - Readily - 5 days | - | - |

Product/ingredient name

Xylene (mixture of isomeres)

Aquatic half-life

-

Photolysis

-

Biodegradability

Readily

Naphtha (petroleum), hydrodesulfurized heavy

-

100%; < 28 day(s).

-

Bioaccumulative potential

Product/ingredient name

Dimethyl ether

LogP_{ow}

0.1

BCF

-

Potential

low

Xylene (mixture of isomeres)

3.2

-

high

Naphtha (petroleum), hydrodesulfurized heavy

>3

-

high

1,2,4-Trimethylbenzene

3.8

-

high

AOX

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.


European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 20 01 27* paint, inks, adhesives and resins containing dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|-----------|---|---------|-----|--|--|
| ADR/RID Class | 1950 | AEROSOLS, flammable Limited quantity | 2 | - | | Hazard identification number 23 Limited quantity LQ2 CEFIC Tremcard 20G5F Remarks Limited Quantity - ADR/IMDG 3.4.6 |
| IMDG Class | 1950 | AEROSOLS, flammable Limited quantity | 2.1 | - | | Emergency schedules (EmS) F-D, S-U Remarks Limited Quantity - ADR/IMDG 3.4.6 |
| IATA Class | 1950 | AEROSOLS, flammable | 2.1 | - |  | Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 (<6 bar @ 20°C) Cargo Aircraft Only Quantity limitation: 150 kg Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg |

PG* : Packing group

15. Regulatory information

EU regulations

: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol(s)



Extremely flammable, Harmful

Risk phrases

: R12- Extremely flammable.
 R20/21- Harmful by inhalation and in contact with skin.
 R38- Irritating to skin.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

: S2- Keep out of the reach of children.
 S23- Do not breathe vapor or spray.
 S36/37- Wear suitable protective clothing and gloves.
 S51- Use only in well-ventilated areas.
 S56- Dispose of this material and its container at hazardous or special waste collection point.
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains

: Xylene (mixture of isomeres)

Europe inventory

: **Europe inventory:** Not determined.

Other EU regulations

Additional warning phrases : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

15. Regulatory information

Tactile warning of danger : Yes, applicable.

CN code : 3208 10 90

National regulations**16. Other information**

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) :

- R12- Extremely flammable.
- R10- Flammable.
- R20- Harmful by inhalation.
- R20/21- Harmful by inhalation and in contact with skin.
- R65- Harmful: may cause lung damage if swallowed.
- R38- Irritating to skin.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R66- Repeated exposure may cause skin dryness or cracking.
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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