

SAFETY DATA SHEET



BG 244

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

1.1 Product identifier

Product name : BG 244
MSDS no. : 244
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses
Other non-specified industry: Fuel additive.

1.3 Details of the supplier of the safety data sheet

Manufacturer : BG Products Inc.
701 S. Wichita Street
Wichita, KS, 67213, USA
www.bgprod.com

Importer : BG Products of Europe™
ASK House • Northgate Avenue
Bury St. Edmunds
Suffolk
IP32 6BB • UK
0044 (0)1284 777930

Only representative : HH Compliance Ltd.
Rubicon Centre, CIT Campus,
Bishopstown,
Cork
Ireland
+353-21-4868120
info@h2compliance.com

e-mail address of person responsible for this SDS : msds@bgprod.com

1.4 Emergency telephone number

Emergency telephone number : 00 +1 703-527-3887 (CHEMTREC INTL)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

Carc. 2, H351

STOT RE 1, H372

Asp. Tox. 1, H304

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification**Hazard pictograms****Signal word**

: Danger

Hazard statements

: Flammable liquid and vapour.
 Suspected of causing cancer.
 May be fatal if swallowed and enters airways.
 Causes damage to organs through prolonged or repeated exposure.
 Toxic to aquatic life with long lasting effects.

Precautionary statements**General**

: Not applicable.

Prevention

: Obtain special instructions before use. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Avoid release to the environment. Do not breathe vapour.

Response

: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage

: Keep cool.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: Naphtha (petroleum), hydrotreated heavy
 Solvent naphtha (petroleum), heavy arom.
 Stoddard solvent
 naphthalene

Supplemental label elements

: Not applicable.

Special packaging requirements**Containers to be fitted with child-resistant fastenings**

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards**Other hazards which do not result in classification**

: None known.

SECTION 3: Composition/information on ingredients**Substance/mixture**

: Mixture

Product/ingredient name	Identifiers	%	Classification	
			Regulation (EC) No. 1272/2008 [CLP]	Type
Europe Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥10 - <25	Asp. Tox. 1, H304	[1]
Solvent naphtha (petroleum), heavy arom.	EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3	≥10 - <25	Asp. Tox. 1, H304	[1]
Stoddard solvent	EC: 232-489-3 CAS: 8052-41-3	≥10 - <25	STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304	[1]

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SECTION 3: Composition/information on ingredients

naphthalene	Index: 649-345-00-4 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	≥2.4 - <3	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304	[1] [2]
Distillates (petroleum), hydrotreated light	EC: 265-149-8 CAS: 64742-47-8 Index: 649-422-00-2	≥1 - <3		[1]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≥1.2 - <3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

SECTION 4: First aid measures**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : Adverse symptoms may include the following:
nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
E2: Hazardous to the aquatic environment - Chronic 2	200	500
C6: Flammable (R10)	5000	50000
C9ii: Toxic for the environment	200	500

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe	
naphthalene	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 100 mg/m ³ 8 hours.
Austria	
naphthalene	GKV_MAK (Austria, 12/2011). Absorbed through skin. TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	GKV_MAK (Austria, 12/2011). PEAK: 30 ppm, 4 times per shift, 15 minutes. TWA: 100 mg/m ³ 8 hours. PEAK: 150 mg/m ³ , 4 times per shift, 15 minutes. TWA: 20 ppm 8 hours.
Czech Republic	
Solvent naphtha (petroleum), heavy arom.	MZCR PEL/NPK-P (Czech Republic, 1/2013). TWA: 200 mg/m ³ 8 hours. STEL: 1000 mg/m ³ 15 minutes.
naphthalene	MZCR PEL/NPK-P (Czech Republic, 1/2013). TWA: 50 mg/m ³ 8 hours. TWA: 9.55 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 19.1 ppm 15 minutes.
1,2,4-trimethylbenzene	MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin. TWA: 100 mg/m ³ 8 hours. TWA: 20.3 ppm 8 hours. STEL: 250 mg/m ³ 15 minutes. STEL: 50.75 ppm 15 minutes.
France	
naphthalene	Ministère du travail (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	Ministère du travail (France, 7/2012). Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits) TWA: 20 ppm 8 hours. TWA: 100 mg/m ³ 8 hours. STEL: 250 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
Germany	

SECTION 8: Exposure controls/personal protection

naphthalene	TRGS900 AGW (Germany, 12/2014). Absorbed through skin. TWA: 0.1 ppm 8 hours. Form: Inhalable fraction TWA: 0.5 mg/m ³ 8 hours. Form: Inhalable fraction PEAK: 0.1 ppm 15 minutes. Form: Inhalable fraction PEAK: 0.5 mg/m ³ 15 minutes. Form: Inhalable fraction
1,2,4-trimethylbenzene	TRGS900 AGW (Germany, 12/2014). TWA: 100 mg/m ³ 8 hours. PEAK: 200 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes.
Ireland	
Stoddard solvent	NAOSH (Ireland, 12/2011). OELV-8hr: 100 ppm 8 hours. OELV-8hr: 573 mg/m ³ 8 hours.
naphthalene	NAOSH (Ireland, 12/2011). OELV-8hr: 10 ppm 8 hours. OELV-8hr: 50 mg/m ³ 8 hours. OELV-15min: 15 ppm 15 minutes. OELV-15min: 75 mg/m ³ 15 minutes.
1,2,4-trimethylbenzene	NAOSH (Ireland, 12/2011). OELV-8hr: 100 mg/m ³ 8 hours. OELV-8hr: 20 ppm 8 hours.
Italy	
naphthalene	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	Ministry of Labour and Social Policy (Italy, 10/2013). 8 hours: 20 ppm 8 hours. 8 hours: 100 mg/m ³ 8 hours.
Netherlands	
naphthalene	MinSZW Wettelijke Grenswaarden (Netherlands, 12/2014). OEL, 8-h TWA: 50 mg/m ³ 8 hours. STEL, 15-min: 80 mg/m ³ 15 minutes.
1,2,4-trimethylbenzene	MinSZW Wettelijke Grenswaarden (Netherlands, 12/2014). OEL, 8-h TWA: 100 mg/m ³ 8 hours. STEL, 15-min: 200 mg/m ³ 15 minutes.
Norway	
naphthalene	FOR-2011-12-06-1358 (Norway, 1/2013). TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	FOR-2011-12-06-1358 (Norway, 1/2013). TWA: 100 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
Poland	
Naphtha (petroleum), hydrotreated heavy	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz. U. 2002 Nr 217, poz. 1833, z późn. zm.) (Poland, 12/2011). TWA: 300 mg/m ³ 8 hours. STEL: 900 mg/m ³ 15 minutes.
2-ethylhexyl nitrate	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 3.5 mg/m ³ 8 hours. STEL: 7 mg/m ³ 15 minutes.
Stoddard solvent	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz. U. 2002 Nr 217, poz. 1833, z późn. zm.) (Poland, 12/2011). TWA: 300 mg/m ³ 8 hours. STEL: 900 mg/m ³ 15 minutes.
naphthalene	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 20 mg/m ³ 8 hours. STEL: 50 mg/m ³ 15 minutes.

SECTION 8: Exposure controls/personal protection

1,2,4-trimethylbenzene	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 100 mg/m ³ 8 hours. STEL: 170 mg/m ³ 15 minutes.
Romania Solvent naphtha (petroleum), heavy arom.	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). Absorbed through skin. VLA: 100 mg/m ³ 8 hours. Short term: 200 mg/m ³ 15 minutes.
naphthalene	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). VLA: 50 mg/m ³ 8 hours. VLA: 9.5 ppm 8 hours.
1,2,4-trimethylbenzene	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). VLA: 100 mg/m ³ 8 hours. VLA: 20 ppm 8 hours.
Slovakia naphthalene	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). Absorbed through skin. TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 80 mg/m ³ 15 minutes. STEL: 15 ppm 15 minutes.
1,2,4-trimethylbenzene	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). TWA: 100 mg/m ³ , (Trimethylbenzene, all isomers) 8 hours. TWA: 20 ppm, (Trimethylbenzene, all isomers) 8 hours.
Turkey Stoddard solvent	NIOSH REL (United States, 4/2013). TWA: 350 mg/m ³ 10 hours. CEIL: 1800 mg/m ³ 15 minutes.
naphthalene	TR ISGGM OEL (Turkey, 12/2013). TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
1,2,4-trimethylbenzene	TR ISGGM OEL (Turkey, 12/2013). TWA: 100 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
United Kingdom (UK) naphthalene	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 25 ppm 8 hours. TWA: 125 mg/m ³ 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels
No DELs available.

SECTION 8: Exposure controls/personal protectionPredicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields(EN 166)

Skin protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Solvent. Chemical-resistant gloves.(EN 374) thickness (minimum) (0.4 mm)

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Wear work clothing with long sleeves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective shoes. (EN ISO 20345)

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: If operating conditions cause high gas concentrations to be produced or any recommended or statutory exposure limit is exceeded, use an air-fed respirator or self-contained breathing apparatus.

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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**Appearance

Physical state	: Liquid.
Colour	: Amber.
Odour	: Solvents
Odour threshold	: Not available.
pH	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 50°C [Pensky-Martens.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 0.883
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): 0.0488 cm ² /s
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information**SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**Acute toxicity

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapour	Rat	8500 mg/m ³	4 hours
naphthalene	LD50 Oral	Rat	>6 g/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-
1,2,4-trimethylbenzene	LD50 Oral	Rat	490 mg/kg	-
	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	16577.5 mg/kg
Inhalation (vapours)	1220.9 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), heavy arom. Stoddard solvent	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
	Eyes - Mild irritant	Human	-	100 parts per million	-
naphthalene	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	495 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05 Milliliters	-

Conclusion/Summary : Not available.

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1,2,4-trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Stoddard solvent	Category 1	Not determined	central nervous system (CNS)

Aspiration hazard

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

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SECTION 11: Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : Adverse symptoms may include the following:
 nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
naphthalene	Acute EC50 1600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
Distillates (petroleum), hydrotreated light 1,2,4-trimethylbenzene	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pecteniscrus - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Naphtha (petroleum), hydrotreated heavy	-	10 to 2500	high
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	99 to 5780	high
Stoddard solvent	3.16 to 7.06	-	high
naphthalene	3.4	36.5 to 168	low
1,2,4-trimethylbenzene	3.63	243	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.





Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	DOT Classification	IMDG	IATA
14.1 UN number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent, 2-ethylhexyl nitrate)	FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent, 2-ethylhexyl nitrate). Marine pollutant (2-ethylhexyl nitrate, Stoddard solvent)	FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent, 2-ethylhexyl nitrate)	FLAMMABLE LIQUIDS, N.O.S. (Stoddard solvent, 2-ethylhexyl nitrate)

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SECTION 14: Transport information

14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	No.	Yes.	No.
Additional information	<p>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p>Limited quantity LQ7</p> <p>Special provisions 640 (E)</p> <p>Tunnel code (D/E)</p>	<p>This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.</p> <p>This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.</p>	<p>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</p> <p>Emergency schedules (EmS) F-E, S-E</p>	<p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p>Passenger and Cargo Aircraft Quantity limitation: 60 L</p> <p>Cargo Aircraft Only Quantity limitation: 220 L</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 10 L</p> <p>Remarks Marine Pollutant:</p>

14.6 Special precautions for user : **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.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

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SECTION 15: Regulatory information

Other EU regulations

- Europe inventory : Not determined.
 Black List Chemicals : Not listed
 Priority List Chemicals : Not listed
 Integrated pollution prevention and control list (IPPC) - Air : Not listed
 Integrated pollution prevention and control list (IPPC) - Water : Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
naphthalene	Carc. 2, H351	-	-	-

National regulations

Austria

Product/ingredient name	List name	Name on list	Classification	Notes
naphthalene	Austria Occupational Exposure Limits	Naphtalin	Carc. B	-

- VbF class : A II
 Very dangerous flammable liquid.

- Limitation of the use of organic solvents : Permitted.

Czech Republic

- Storage code : II

France

Product/ingredient name	List name	Name on list	Classification	Notes
naphthalene	France Occupational Exposure Limits	naphtalène	Carc. C2	-

- Social Security Code, Articles L 461-1 to L 461-7 : Solvent naphtha (petroleum), heavy arom. RG 84
 Stoddard solvent RG 84

- Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

- Storage code : 3
 Hazardous incident ordinance : Applicable. Category: 9b Dangerous for the environment.
 Hazard class for water : 3 Appendix No. 4
 Technical instruction on air quality control : TA-Luft Number 5.2.5: 77.5-100%
 TA-Luft Class I - Number 5.2.5: 0-2.7%

Ireland

Italy

- D.Lgs. 152/06 : Not classified.

Netherlands

Product/ingredient name	List name	Name on list	Classification	Notes
Naphtha (petroleum), hydrotreated heavy	Netherlands Carcinogenic Chemicals	(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310	Carc.	Part of these derivatives are only classified as carcinogenic if the content of benzene > 0.1% and/or benzo(a)pyrene > 0.005%

SECTION 15: Regulatory information

	<p>Netherlands Mutagenic Substances</p>	<p>aardoliegassen en residuen EG nrs. beginnend met 232, 265-267, 268-273, 274, 277, 283-285, 287, 289, 292, 293, 295, 296, 298, 302, 305, 307, 308-310, 306</p>	<p>Muta.</p>	<p>or 1,3-butadiene > 0,1% or DMSO-extract > 3%. Please refer to Publicatieblad L381 of December 31th, 1994: the 21st amendment of Directive 67/548/EEC or later amendments of this Directive.</p>
<p>Solvent naphtha (petroleum), heavy arom.</p>	<p>Netherlands Carcinogenic Chemicals</p>	<p>(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310</p>	<p>Carc.</p>	<p>Part of these derivates are only classified as carcinogenic if the content of benzene > 0.1% and/or benzo(a) pyrene > 0.005% or 1,3-butadiene > 0,1% or DMSO-extract > 3%. Please refer to Publicatieblad L381 of December 31th, 1994: the 21st amendment of Directive 67/548/EEC or later amendments of this Directive.</p>
<p>Stoddard solvent</p>	<p>Netherlands Carcinogenic Chemicals</p>	<p>(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310</p>	<p>Carc.</p>	<p>Part of these derivates are only classified as carcinogenic if the content of benzene > 0.1% and/or benzo(a) pyrene > 0.005% or 1,3-butadiene > 0,1% or DMSO-extract > 3%. Please refer to Publicatieblad L381 of December 31th, 1994: the 21st amendment of Directive 67/548/EEC or</p>

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SECTION 15: Regulatory information

naphthalene	Netherlands Carcinogenic Chemicals	polycyclische aromatische koolwaterstoffen	Carc.	later amendments of this Directive. -
Distillates (petroleum), hydrotreated light	Netherlands Carcinogenic Chemicals	(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310	Carc.	Part of these derivates are only classified as carcinogenic if the content of benzene > 0.1% and/or benzo(a) pyrene > 0.005% or 1,3-butadiene > 0,1% or DMSO- extract > 3%. Please refer to Publicatieblad L381 of December 31th, 1994: the 21st amendment of Directive 67/548/EEC or later amendments of this Directive.

Water Discharge Policy (ABM) : Contains a black-list substance. Harmful to aquatic organisms. Contains substances that are harmful to the aquatic environment. Abatement effort: A

[Norway](#)

[Poland](#)

[Romania](#)

Product/ingredient name	List name	Name on list	Classification	Notes
naphthalene	Romania Ministry of Social Assistance and Family Policies and Ministry of Public Health	Hidrocarburi policiclice aromatice (fracțiunea extractibilă în benzen)	Carc. C	-

[Slovakia](#)

[Turkey](#)

[United Kingdom \(UK\)](#)

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol \(Annexes A, B, C, E\)](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Inform Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

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SECTION 15: Regulatory information

Ingredient name	List name	Status
PAHs	POPs - Annex 3	Listed

International lists

National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
United States	: United States inventory (TSCA 8b) : Not determined.
15.2 Chemical Safety Assessment	: Not yet complete.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226 Carc. 2, H351 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

Europe

Full text of abbreviated H statements	: H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. (inhalation) H335 May cause respiratory irritation. H351 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H372 Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) (central nervous system (CNS)) H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
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SECTION 16: Other information

Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Carc. 2, H351 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT RE 1, H372 STOT RE 1, H372 (central nervous system (CNS)) STOT SE 3, H335	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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