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 Reviewed on: 01.12.2010 – 8th Edition

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE (PREPARATION) AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance / mixture (preparation)

Commercial name: BTX fraction
 Chemical name: Hydrocarbons, C5-7, C6-rich, ethylene-manuf. by-products
 Registration number: 01-2119475793-25-0001

1.2 Use of the substance / mixture (preparation)

Intermediate for chemical synthesis used under strictly controlled conditions during its whole lifecycle as described in Art. 18(4) of Regulation (EC) No. 1907/2006 REACH.

1.3 Company / undertaking identification

■ UNIPETROL RPA, s.r.o., Záluží 1, 436 70 Litvínov, Czech Republic

☎: +420 476 161 111
 fax: +420 476 619 553
unipetrolrpa@unipetrol.cz
www.unipetrolrpa.cz

■ UNIPETROL RPA, s.r.o., Záluží 1, 436 70 Litvínov, Czech Republic

• Trade Division Director: ☎: +420 476 164 281 fax: +420 476 163 691
jaroslava.svobodova@unipetrol.cz
 • Sales administrator: ☎: +420 476 164 169 fax: +420 476 163 691

■ Person responsible for the MSDS ludmila.krejcikova@unipetrol.cz

1.4 Emergency telephone numbers in case of accident

• UNIPETROL RPA, s.r.o. ☎: +420 476 163 111 (non stop)
 ☎: +420 476 162 111 (non stop)
 • CENTRE OF THE CZECH MINISTRY OF HEALTH
 Toxicological Information Centre Prague (TIS), CZ ☎: +420 224 919 293 (non stop)
 Na bojišti 1, 128 08 Praha 2, Czech Republic ☎: +420 224 915 402 (non stop)
 e-mail: tis@mbox.cesnet.cz
 fax: +420 224 914 570

2. HAZARD IDENTIFICATION

2.1 Classification of the substance / mixture (preparation)

Product is classified as dangerous according to the Czech Act No. 356/2003 Sb. and Regulation (EC) No 1272/2008 (Directive 67/548/EEC or Directive 1999/45/EC):

2.1.1 CLP (Regulation (EC) No 1272/2008 CLP) :

FLAMMABLE LIQUID (CATEGORY 2)
 CARCINOGENICITY (CATEGORY 1A)
 GERM CELL MUTAGENICITY (CATEGORY 1B)
 REPRODUCTIVE TOXICITY (CATEGORY 2)
 SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE (CATEGORY 1)
 ASPIRATION HAZARD (CATEGORY 1)
 SERIOUS EYE DAMAGE / EXE IRRITATION (CATEGORY 2)
 SKIN CORROSION / IRRITATION (CATEGORY 2)
 SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (CATEGORY 3)
 HAZARDOUS TO THE AQUATIC ENVIRONMENT (CATEGORY 2)

| |
|--------------------------------|
| Flam. Liq. 2, H 225 |
| Carc. 1A, H 350 |
| Muta. 1B, H 340 |
| Repr. 2, H 361d |
| STOT RE 1, H 372 |
| Asp. Tox. 1, H 304 |
| Eye Irrit. 2, H 319 |
| Skin Irrit 2, H 315 |
| STOT SE 3, H 336 |
| Aquatic Chronic 2, H411 |

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2.1.2 DSD and/or DPD (Directive 67/548/EEC or Directive 1999/45/EC) :

HIGHLY FLAMMABLE
 CARCINOGENIC CAT.1
 MUTAGENIC CAT.2
 TOXIC FOR REPRODUCTION CAT.3
 TOXIC
 HARMFUL
 IRRITANT
 DANGEROUS FOR THE ENVIRONMENT

| |
|-------------------------|
| F; R 11 |
| Carc.Cat.1; R 45 |
| Muta.Cat.2; R 46 |
| Repr.Cat.3; R 63 |
| T; R 48/23/24/25 |
| Xn; R 65 |
| Xi; R 36/38 |
| N; R 51-53 |
| R 67 |

Re: Full text of H-phrases, EUH-phrases and R phrases set in Section 16

2.1.3 Label elements

| | | |
|---|---|--|
| <i>Product identifiers</i> | <p align="center">BTX FRACTION HYDROCARBONS C5-7, C6-RICH, ETHYLENE MANUF. BY-PRODUCTS CAS No.: 94733-07-0</p> | |
| <i>Hazard pictograms</i> |     <p align="center">GHS02 GHS08 GHS07 GHS09</p> | |
| <i>Signal word</i> | DANGER | |
| <i>Hazard statements (H-,EUH-phrases)</i> | H225 H304 H315 H319 H336 H340 H350 H361d H372 H411 | Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. |
| <i>Precautionary statements (P-phrases)</i> | P202 P210 P243 P260 P273 P280 P301+P310 P331 | Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Take precautionary measures against static discharge. Do not breathe vapours. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. |
| <i>Supplemental information</i> | Restricted to professional users. | |
| <p align="center">UNIPETROL RPA, s.r.o. Záluží 1, 436 70 Litvínov, Czech Republic ☎: +420 476 161 111, +420 476 162 111, +420 476 163 111</p> | | |

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2.2 Information pertaining to particular dangers for human

Toxic substance with carcinogenic and mutagenic effects. Possible risk of harm to the unborn child. Irritating to eyes and skin. Harmful: may cause lung damage if swallowed. Acute intoxication leads to central nervous system attenuation and narcotic effects occur. High vapour concentrations irritate respiratory system and eyes and may lead to fast coma and death. Liquid is absorbed through skin and may develop allergic eruption. Chronic effects cause bone marrow damage, haemopoiesis disorder and may develop leukaemia.

2.3 Information pertaining to particular dangers for the environment

Product is harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.4 Other adverse effects

Highly flammable and easily ignitable substance. Danger of ignition at normal temperature. Readily evaporates and vapours form with air toxic and explosive mixtures heavier than air. Mixtures keep above ground and after ignition spread rapidly into far distances. Ignition possible when exposed to hot surfaces, sparks, naked flames and by electrostatic discharges. The substance is practically insoluble in water, floats on the water level and forms toxic and explosive mixtures above the water level. Risk of potential explosion if emptied into drains or released into wastewater. Attacks rubber and plastics.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical substance (CAS No. 91723-50-1, ES No 294-557-9)

4. FIRST AID MEASURES

4.1 General advice

IMMEDIATE MEDICAL ATTENTION IS REQUIRED AFTER INHALATION OR AFTER SWALLOWING.

In case of health troubles or doubts, seek medical advice immediately and show this Material Safety Data Sheet. Ensure activity of vitally important functions until the arrival of the doctor (artificial respiration, inhalation of oxygen, heart massage). If patient is unconscious, or in case of danger of blackout (apsychia), transport patient in a stabilised position. In case of first degree burns (painful redness), and second degree burns (painful blisters), cool the affected area with cold running water for a long time. In case of third degree burns (redness, cracking pale skin, usually without pain), do not cool affected skin, dress the area with sterile dry gauze only.

4.2 Inhalation

Remove patient to fresh air, keep him warm and in order to rest quietly. Avoid walking. Seek medical advice.

SYMPTOMS AND EFFECTS: irritation, headache, dizziness, weakness, stupefaction, irritant coughing, convulsions, unconsciousness, possible respiratory inhibition or arrest.

4.3 Skin contact

Immediately take off all contaminated clothing and footwear. Flush effected area with copious quantities of lukewarm water and soap or with another suitable cleaning agent. Use a mild cream to treat skin after complete washing. Seek medical advice.

SYMPTOMS AND EFFECTS: mild irritation, degreasing, absorption, eruptioning and blistering.

4.4 Eye contact

Immediately flush eyes with clean lukewarm water and continue flushing for at least 15 minutes – keep the eyelids widely apart and flush thoroughly with mild water stream from the inner to the outer canthus. Seek medical advice.

SYMPTOMS AND EFFECTS: severe irritation, cornea damage.

4.5 Swallowing

Do NOT induce vomiting. Give 1 – 3 spoonfuls of paraffin oil or at least 20 pulverized pills of activated carbon. Never give anything by mouth to an unconscious person, just put patient into a stabilised position. Seek medical advice immediately.

SYMPTOMS AND EFFECTS: nausea, vomiting, convulsions, irregular heartbeat.

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5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam, powder, CO₂.
Cool containers with water spray.

5.2 Extinguishing media to be avoided

Water.

5.3 Caution about specific danger in case of fire and fire-fighting procedures

Danger of violent reaction or explosion. Vapours may travel considerable far distances and cause subsequent ignition. Vapours are heavier than air, may cumulate along the ground and in enclosed spaces – danger of explosion. Do not empty into drains. When burning, it emits toxic and irritant fumes. Containers with the substance exposed to excessive heat may explode.

5.4 Special protective equipment for fire-fighters

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions

Isolate hazard area. Evacuate all unauthorised personnel not participating in rescue operations from the area. Avoid entry into danger area. Remove all possible sources of ignition. Stop traffic and switch off the motors of the engines. Do not smoke and do not handle with naked flame. Use explosion-proof lamps and non-sparking tools. Avoid contact with the substance and its vapours. Apply recommended full protective personal equipment to paralyse the accident. When escaping from the contaminated area, wear mask with cartridge A against organic vapours. In case of general average, evacuate personnel from danger area. In places under the ground level and in enclosed spaces (including drains) risk of explosion.

6.2 Precautions for protection of the environment

Prevent from further leaks of substance. Enclose and dike area. Do not allow substance to enter soil, water and sewage systems. In case of substance discharge to water courses or water containers, inform water consumers immediately, stop service and exploitation of water.

6.3 Recommended methods for cleaning and disposal

Pump off substance safely, soak up residues with compatible porous material and forward for disposal in closed containers. Dispose of under valid legal waste regulations.

7. HANDLING AND STORAGE

7.1 Information for safe handling

Observe all fire-fighting measures (no smoking, do not handle with naked flame and remove all possible sources of ignition). Take precautionary measures against static discharges. Wear recommended personal protective equipment and observe instructions to prevent possible contact of substance with skin and eyes and inhalation. Avoid leak to environment.

7.2 Information for storage

Storerooms should meet the requirements for the fire safety of constructions and electrical facilities and should be in conformity with valid regulations. Store in cool, well-ventilated place with effective exhaust, away from heat and all sources of ignition. Store in tightly closed container in places protected from direct sunshine. Do not store together with oxidizing agents. Take precautionary measures against static discharges. Avoid leak to environment.

7.3 Information for specific use

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Czech Republic (Order-in-Council No 361/2007 Sb.): No limits set.

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It is recommended to observe limits set for components of the product:

| | | |
|----------------------|---|--------------------------------------|
| <i>benzene</i> | <i>PEL = 3 mg.m⁻³</i> | <i>NPK-P = 10 mg.m⁻³</i> |
| <i>toluene</i> | <i>PEL = 200 mg.m⁻³</i> | <i>NPK-P = 500 mg.m⁻³</i> |
| <i>ethyl benzene</i> | <i>PEL = 200 mg.m⁻³</i> | <i>NPK-P = 500 mg.m⁻³</i> |
| <i>xylenes</i> | <i>PEL = 200 mg.m⁻³</i> | <i>NPK-P = 400 mg.m⁻³</i> |
| <i>PEL</i> | <i>Permissible exposure level of a chemical substance in the environment air</i> | |
| <i>NPK-P</i> | <i>Highest permissible concentration of a chemical substance in the environment air</i> | |

European Union (Directive 2006/15/EC): no limits set

It is recommended to observe limits set for components of the product:

| | | |
|-------------------------------|--|---|
| <i>benzene</i> | <i>no limits set</i> | |
| <i>toluene</i> | <i>8 hours limit = 192 mg.m⁻³</i> | <i>short term limit = 384 mg.m⁻³</i> |
| <i>ethyl benzene</i> | <i>8 hours limit = 442 mg.m⁻³</i> | <i>short term limit = 884 mg.m⁻³</i> |
| <i>xylenes</i> | <i>8 hours limit = 221 mg.m⁻³</i> | <i>short term limit = 442 mg.m⁻³</i> |
| <i>8hours limit value</i> | <i>Measured or calculated in relation to a reference period of eight hours as a time-weighted average.</i> | |
| <i>short term limit value</i> | <i>A limit value above which exposure should not occur and which is related to a 15-minute period</i> | |

Recommended determination method in the workplace atmosphere: gas chromatography, detector tube

8.2 Occupational exposure controls

Collective protection measures

General and local ventilation, effective exhaust, hermetisation.

Individual protection measures

Personal protective equipment (PPE) for the protection of eyes, hands and skin corresponding with the performed labour has to be kept at disposition for the employees. In cases, where the workplace exposure control limits cannot be observed with the help of technical equipment or where it is not possible to ensure that the respiratory system exposure does not represent a health hazard for the personnel, adequate respiratory protection have to be kept at disposition. In the case of continuous use of this equipment during constant work, safety breaks have to be scheduled, if the PPE-character requires this. All PPE have to be kept in disposable state and the damaged or contaminated equipment has to be replaced immediately.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):

- *respiratory protection:* protective mask with canister A (brown coloured, protecting against organic vapours), self-contained breathing apparatus
- *eye protection:* safety goggles, full face-shield
- *hand protection:* protective gloves

| | <i>glove material</i> | <i>layer thickness</i> | <i>breakthrough time</i> |
|--|-----------------------|------------------------|--------------------------|
| routine work (possibility of staining) | nitrile | 0,4 mm | 10 Min. |
| outflow / accident disposal | viton | 0,7 mm | 480 Min. |

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 730 Camatril®Velours (splash contact) and 890 Vitoject® (outflow). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. The recommended time applies to the product stated in the safety data sheet as well as to the purpose specified here. Under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL CZ s.r.o., Suderova 2013, 709 00 Ostrava 9, www.klc.de.)

- *skin protection:* Protective coveralls – antistatic design recommended, impervious when handling big amounts (nitrile rubber), sealed leather footwear (free from synthetic adhesives).
- *General safety and hygienic measures:* Observe personal hygienic regulations. Take off immediately all contaminated clothing Do not eat, drink or smoke during work! Wash thoroughly hands and uncovered body parts with soap and water after handling and before eating or drinking, and treat skin with a mild skin restoring cream.

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8.3 Environmental exposure controls

Proceed in accordance with valid air and water legislative regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

- *Physical state at 20°C:* liquid
- *Colour:* yellowish
- *Odour:* aromatic

9.2 Important health, safety and environmental information

- *pH-value:* not applicable
- *Boiling range analysis - beginning [°C]:* 75-79
- *end [°C]:* 140-150
- *Flash point [°C]:* -16
- *Inflammability:* highly flammable
- *Explosion limits - lower [Vol. %]:* 1
- *- upper [Vol. %]:* 8
- *Oxidising properties:* none
- *Vapour pressure at 20°C [kPa]:* 18
- *Density at 20°C [kg.m⁻³]:* 850-880
- *Solubility:* not applicable
- *Solubility in water at 20°C [g.l⁻¹]:* practically insoluble
- *Partition coefficient n-octanol/ water [log Kow]:* not applicable
- *Viscosity at 20°C [mPa.s]:* not applicable
- *Vapour density (air=1):* not applicable
- *Evaporation rate:* not applicable

9.3 Other information

- *Melting point / solidification point [°C]:* < -50
- *Ignition temperature [°C]:* 440
- *Fire point [°C]:* -11
- *Danger class:* I
- *Heat class:* T2

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

Concentrations within the explosion limits, sources of ignition, high temperature, sun radiation.

10.2 Material to avoid

Oxidizing agents. Benzene - explosive reaction with chlorine (on light), with acid and kalium permanganate, with diborane, nitric acid, nitrosyl perchlorate, silver perchlorate, oxygen, ozone, permanganic acid. Violent reactions with iodine fluoride, ignition with sodium peroxide. Hazardous reactions with concentrated mineral acids, halogens, melted sulphur. Dissolves non-polar rubber.

10.3 Hazardous decomposition products

Thermal decomposition: CO, CO₂.

11. TOXICOLOGICAL INFORMATION

11.1 Acute effects

Toxic substance with carcinogenic and mutagenic effects. Possible risk of harm to the unborn child. Irritating to eyes and skin. Harmful: may cause lung damage if swallowed. Acute intoxication leads to central nervous system attenuation and narcotic effects occur. High vapour concentrations irritate respiratory system and eyes and may lead to fast coma and death. Liquid is absorbed through skin and may develop allergic eruption.

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Inhalation: irritation, headache, dizziness, weakness, stupefaction, irritant coughing, convulsions, unconsciousness, possible respiratory inhibition or arrest.
Eyes: severe irritation, cornea damage.
Skin: mild irritation, degreasing, absorption, eruption and blistering.
Swallowing: nausea, vomiting, convulsions, irregular heartbeat.

11.2 Repeated dose toxicity

Chronic effects cause bone marrow damage, haemopoiesis disorder and may develop leukaemia.

11.3 Sensitisation

Benzene – may cause skin allergy

11.4 CMR effects (carcinogenicity, mutagenicity, toxicity for reproduction)

Benzene has proved carcinogenic effects for humans (IARC group 1).

Benzene has mutagenic effects.

Toluene has adverse effect on reproduction.

11.5 Toxicokinetics, metabolism, distribution

Not applicable.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Not applicable.

12.2 Mobility

Not applicable.

12.3 Persistence and degradability

Not applicable.

12.4 Bioaccumulative potential

Not applicable.

12.5 Results of PBT assessment

Not applicable.

12.6 Other adverse environmental effects

Contains substances harmful to aquatic organisms, which may cause long-term adverse effects in the aquatic environment.

Product is considered to be a defective substance (Act No 254/2001 Sb.) and a dangerous substance (Annex No 1 to Act No 254/2001 Sb.).

13. DISPOSAL CONSIDERATIONS**13.1 Recommended disposal methods for the substance / mixture (preparation)**

Product reuse or disposal in accordance with valid waste legislative regulations.

Recommended method: Energetic utilization (combustion)

Recommended classification according to Waste Catalogue: 07 01 08

13.2 Recommended disposal methods for contaminated packaging

Product is transported in tank-vehicles.

13.3 Waste management measures that control exposure of humans and environment

Proceed in accordance with valid health, air and water legislative regulations.

13.3 Waste regulation

Czech Republic

Act No 185/2001 Sb. on wastes and on the amendment of some additional acts, as amended.

Regulation No 381/2001 Sb. establishing the Waste Catalogue, as amended.

European Union

Directive 2006/12/ES on waste

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14. TRANSPORT INFORMATION
14.1 Transport classification

- *Land transport (ADR / RID)*
- *Name:* FLAMMABLE LIQUID, N.O.S.
- *UN-Number:* 1993
- *Class:* 3
- *Classification code:* F1
- *Packing group:* II
- *Hazard identification No:* 33
- *Symbol/label:* 3 + mark for the substance hazardous to the environment (the symbol of fish and tree)



14.2 Special transport precautionary measures

Not applicable.

15. REGULATORY INFORMATION
15.1 Chemical Safety Assessment

Not applicable.

15.2 Labelling of the substance / mixture (preparation)

| | |
|---------------------------------|---|
| <i>name</i> | BTX FRACTION HYDROCARBONS, C5-7, C6-RICH, ETHYLENE-MANUF. BY-PRODUCTS ES: 294-557-9 |
| <i>graphic symbol of danger</i> |   Highly flammable Toxic |
| <i>R-phrases</i> | 11-36/38-45-46-48/23/24/25-51/53-63-65-67 Highly flammable Irritating to eyes and skin May cause cancer May cause heritable genetic damage Also toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Possible risk of harm to the unborn child Also harmful: may cause lung damage if swallowed Vapours may cause drowsiness and dizziness |
| <i>S-phrases</i> | 16-23-24/25-26-29-33-36/37/39-45-53-61 Keep away from sources of ignition - No smoking Do not breathe vapour Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Do not empty into drains Take precautionary measures against static discharges Wear suitable protective clothing, gloves and eye/face protection In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) Avoid exposure - obtain special instructions before use Avoid release to the environment. Refer to special instructions/safety data sheets Restricted to professional users. |
| Company : | UNIPETROL RPA, s.r.o. Záluží 1, 436 70 Litvínov Czech Republic ☎: +420 476 161 111, +420 476 162 111, +420 476 163 111 |

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15.3 Regulatory Data relating to the substance / mixture (preparation)

European Community

Regulation (EC) No 1907/2006 REACH

Regulation (EC) No 1272/2008 (CLP)

Czech Republic

Act No 356/2003 Sb., on chemical substances and chemical preparations and on the amendment of some additional acts, as amended

Act No 258/2000 Sb. on the Protection of Public Health and on the amendments of some related acts, as amended.

Act No 254/2001 Sb. on Waters and on the amendment of some additional acts, as amended

Order-in-Council No 361/2007 Sb., regulating Safety Occupational Health Conditions in the workplace, as amended.

16. OTHER INFORMATION

Full text of relevant R-phrases, H-phrases and EUH-phrases referred to in sections 2 and/or 3

| | |
|---------------|---|
| R 11 | Highly flammable |
| R 36/38 | Irritating to eyes and skin |
| R 45 | May cause cancer |
| R 46 | May cause heritable genetic damage |
| R 48/23/24/25 | Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed |
| R 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R 63 | Possible risk of harm to the unborn child |
| R 65 | Harmful: may cause lung damage if swallowed |
| R 67 | Vapours may cause drowsiness and dizziness |
| H 225 | Highly flammable liquid and vapour. |
| H 304 | May be fatal if swallowed and enters airways. |
| H 315 | Causes skin irritation. |
| H 319 | Causes serious eye irritation. |
| H 336 | May cause drowsiness or dizziness. |
| H 340 | May cause genetic defects. |
| H 350 | May cause cancer. |
| H 361d | Suspected of damaging the unborn child. |
| H 372 | Causes damage to organs through prolonged or repeated exposure. |
| H 411 | Toxic to aquatic life with long lasting effects. |

Fulfilling the obligations related to Regulation (EC) No. 1907/2006 - REACH

The stated chemical substance was pre-registered in accordance with the REACH regulation.

Training instructions

Personnel handling the product has to be acquainted demonstrably with its hazardous properties, with health and environmental protection principles related to the product and first aid principles (Act No 258/2000 Sb., as amended).

Usage restriction

Product can be used in manufacturing only, where the benzene emissions do not exceed exposure limit values.

Access to information

Employer must in accordance with Articles 35 of the Regulation (EC) No 1907/2006 enable access to the information from MSDS workers and their representatives who this product use or may be exposed to in the course of their work.

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Sources of data used to compile the Material Safety Data Sheet

Record on the classification of hazardous properties of the product
Annex No. 1 to the Regulation No 232/2004 Sb., as amended.
Annex No VI to the Regulation (EC) No 1272/2008 (Table No 3.2)
Annex No 1F to the Directive No 2008/58/EC
Annex No 1A to the Directive No 2009/2/ES
First aid principles in case of exposition to chemical substances (doc. MUDr. Daniela Pelclová et al.)
Declaration from 18.02.2006 (Prof. MUDr. Pelclová, Toxicological Information Centre)

Revised information

26.10.2005: Revised data under sections 2, 3.1, 3.2, 11.1, 11.2, 12.5, 15.1, 15.2 and 16
20.02.2006: Revised data under sections 3.1, 15.1 and 16
01.12.2006: Revised data under sections 1, 2, 8 and 16
01.03.2007: Revised data under sections 1 and 16
01.06.2007: General update according to Regulation (EC) No 1907/2006 REACH
01.12.2009: Revised data under sections 1, 2.1, 8.1, 9, 15, 16 and “Statement”
01.12.2010: Revised data under sections 1 (registration number, using under strictly controlled conditions),
2 (classification and labelling according to CLP), 4, 14, 15, 16 and Annex addition

This MSDS is developed as a provisional document expanded to include the most important information related to the substances registration process under the Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH):

- 1. registration number:**
- 2. classification and labelling under the Regulation (EC) No 1272/2008 of the European Parliament and of the Council (CLP);**
- 3. notice of compliance with strictly controlled conditions for products registered as an intermediate.**

Full version of MSDS prepared in accordance with Commission Regulation (EU) No.453/2010 will be developed and made available as soon as possible after the approval of the updated guidance on the preparation of safety data sheets and exposure scenarios, the draft prepared by European Chemicals Agency ECHA

Statement: *This Material Safety Data Sheet has been elaborated in accordance with the Regulation (EC) No 1907/2006. This MSDS contains information necessary for the protection of health and environment. The information does not substitute the quality specification of products and should not be construed as any guarantee of suitability for particular applications. The data contained are based on the present state of knowledge and current national legislation. The user is responsible for ensuring the compliance with the relevant regional legislation.*

According to the authorisation form on behalf of UNIPETROL RPA s.r.o., elaborated by:
Environmental and Standardisation Department HSE&Q, UNIPETROL SERVICES, s.r.o.

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ANNEX OF THE SAFETY DATA SHEET**EXPOSURE SCENARIOS ACCORDING TO ART. 31 OF THE REGULATION (EC) NO 1907/2006
OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH)**

According to Art. 31(7) there is no obligation to prepare and put exposure scenarios in an annex of the Safety Data Sheet for isolated intermediates used under strictly controlled conditions.