# SAFETY DATA SHEET

Version #: 01
Issue date: 07-25-2023

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

**1.1. Product identifier**

| | |
|---|---|
| **Trade name or designation of the mixture** | Flexane GP Putty Hardener |
| **Registration number** | - |
| **Synonyms** | None. |
| **SKU#** | X0025BB |

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

| | |
|---|---|
| **Identified uses** | Not available. |
| **Uses advised against** | None known. |

**1.3. Details of the supplier of the safety data sheet**

**Supplier**

| | | |
|---|---|---|
| **Company name** | ITW Performance Polymers | |
| **Address** | Bay 150<br>Shannon Industrial Estate<br>Co. Clare, Ireland | |
| **Division** | | |
| **Telephone** | Phone | 353(61)771500 |
| **e-mail** | customerservice.shannon@itwpp.com | |
| **Contact person** | Not available. | |

**1.4. Emergency telephone number**

| | | |
|---|---|---|
| | Emergency Number | 44(0)1235 239 670 |

| | |
|---|---|
| **General in EU** | 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Austria National Poisons Information Center** | +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Belgium National Poisons Control Center** | 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Bulgaria National Toxicological Information Center** | +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Croatia Poisons Information Center** | +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) |
| **Cyprus Poison Center** | 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Czech Republic National Poisons Information Center** | +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) |
| **Denmark National Poisons Control Center** | +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Estonia National Poisons Information Center** | 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.) |
| **Finland National Poison Information Center** | (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **France National Poisons Control Center** | ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |

| | |
|---|---|
| **Greece Poison Information Centre** | (0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Hungary National Emergency Phone Number** | +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Iceland Poison Center** | (+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Latvia Emergency medical aid** | 113 |
| **Latvia Poison and Drug Information Center** | +371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Lithuania Neatidėliotina informacija apsinuodijus** | +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) |
| **Malta Accident and Emergency Department** | 2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.) |
| **Netherlands National Poisons Information Center (NVIC)** | NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications) |
| **Norway Norwegian Poison Information Center** | 22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Portugal Poison Center** | 800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Romania Biroul RSI si Informare Toxicologica** | 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.) |
| **Slovakia National Toxicological Information Center** | +421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Spain Toxicology Information Service** | + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Sweden National Poison Information Center** | 112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |
| **Switzerland Tox Info Suisse** | 145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

**Health hazards**

| | | |
|---|---|---|
| Acute toxicity, oral | Category 4 | H302 - Harmful if swallowed. |
| Serious eye damage/eye irritation | Category 2 | H319 - Causes serious eye irritation. |
| Specific target organ toxicity - repeated exposure | Category 2 | H373 - May cause damage to organs through prolonged or repeated exposure. |

**Environmental hazards**

| | | |
|---|---|---|
| Hazardous to the aquatic environment, acute aquatic hazard | Category 1 | H400 - Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 1 | H410 - Very toxic to aquatic life with long lasting effects. |

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended**

**UFI:**

Austria: U440-40XK-800H-K52S
Belgium: U440-40XK-800H-K52S
Bulgaria: U440-40XK-800H-K52S
Croatia: U440-40XK-800H-K52S
Cyprus: U440-40XK-800H-K52S
Czech Republic: U440-40XK-800H-K52S
Denmark: U440-40XK-800H-K52S
Estonia: U440-40XK-800H-K52S
EU: U440-40XK-800H-K52S
Finland: U440-40XK-800H-K52S
France: U440-40XK-800H-K52S
Germany: U440-40XK-800H-K52S
Greece: U440-40XK-800H-K52S
Hungary: U440-40XK-800H-K52S
Iceland: U440-40XK-800H-K52S
Ireland: U440-40XK-800H-K52S
Italy: U440-40XK-800H-K52S
Latvia: U440-40XK-800H-K52S
Lithuania: U440-40XK-800H-K52S
Luxembourg: U440-40XK-800H-K52S
Malta: U440-40XK-800H-K52S
Netherlands: U440-40XK-800H-K52S
Norway: U440-40XK-800H-K52S
Poland: U440-40XK-800H-K52S
Portugal: U440-40XK-800H-K52S
Romania: U440-40XK-800H-K52S
Slovakia: U440-40XK-800H-K52S
Slovenia: U440-40XK-800H-K52S
Spain: U440-40XK-800H-K52S
Sweden: U440-40XK-800H-K52S

**Contains:** 2,6-diamino-3,5-diethyltoluene; 4,6-diethyl-2-methyl-1,3-benzenediamine; [1] 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine; [2] diethylmethylbenzenediamine [3], Carbon Black

**Hazard pictograms**

**Signal word** Warning

**Hazard statements**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary statements**

**Prevention**

| | |
|---|---|
| P260 | Do not breathe mist/vapors. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear eye protection/face protection. |

**Response**

| | |
|---|---|
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314 | Get medical advice/attention if you feel unwell. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P391 | Collect spillage. |

**Storage** Not available.

**Disposal**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Supplemental label information** 3% of the mixture consists of component(s) of unknown acute dermal toxicity. 45% of the mixture consists of component(s) of unknown acute inhalation toxicity. 3% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 3% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|---|---|---|---|---|
| 2,6-diamino-3,5-diethyltoluene; 4,6-diethyl-2-methyl-1,3-benzenediamine; [1] 2,4-diamino-3,5-diethyltoluene; 2,4-diethyl-6-methyl-1,3-benzenediamine; [2] diethylmethylbenzenediamine [3] | 30-60% | 68479-98-1<br>270-877-4 | - | 612-130-00-0 | |
| **Classification:** Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Eye Irrit. 2;H319, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410 | | | | | |
| Carbon Black | 1-5% | 1333-86-4<br>215-609-9 | - | - | |
| **Classification:** Carc. 2;H351 | | | | | |
| Other components below reportable levels | | | | | |

**List of abbreviations and symbols that may be used above**

ATE: Acute toxicity estimate.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Union workplace exposure limit(s).
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**4.1. Description of first aid measures**

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

**5.1. Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

| | |
|---|---|
| **Special fire fighting procedures** | Move containers from fire area if you can do so without risk. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **For non-emergency personnel** | Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| **For emergency responders** | Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS. |
| **6.2. Environmental precautions** | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |
| **6.3. Methods and material for containment and cleaning up** | Prevent product from entering drains.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. |
| **6.4. Reference to other sections** | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS. |

## SECTION 7: Handling and storage

| | |
|---|---|
| **7.1. Precautions for safe handling** | Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. |
| **7.2. Conditions for safe storage, including any incompatibilities** | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).<br><br>Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended<br><br>ANNEX 1, PART 1 Categories of dangerous substances<br>Hazard categories in accordance with Regulation (EC) No 1272/2008<br>- E1 Hazardous to the Aquatic Environment Acute (Lower-tier requirements = 100 tons; Upper-tier requirements = 200 tons)<br>- E1 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 100 tons; Upper-tier requirements = 200 tons) |
| **7.3. Specific end use(s)** | Observe industrial sector guidance on best practices. |

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

**Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 |

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | MAC | 3,5 mg/m3 |
| | STEL | 7 mg/m3 |

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3,5 mg/m3 |

**Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 10 mg/m3 | Dust. |

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TLV | 3,5 mg/m3 |

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | STEL | 7 mg/m3 |
| | TWA | 3,5 mg/m3 |

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | VME | 3,5 mg/m3 |

**Regulatory status:** Indicative limit (VL)

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 4 mg/m3 | Inhalable dust. |

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | AGW | 10 mg/m3 | Inhalable fraction. |
| | | 1,25 mg/m3 | Respirable fraction. |

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | STEL | 7 mg/m3 |
| | TWA | 3,5 mg/m3 |

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable dust. |

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3,5 mg/m3 |

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 5 mg/m3 | Respirable fraction. |

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| | | 10 mg/m3 | Inhalable fraction. |

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TLV | 3,5 mg/m3 |

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 4 mg/m3 | Inhalable fraction. |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Fume. |

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 2 mg/m3 |

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 10 mg/m3 | Inhalable fraction. |
| | | 1,25 mg/m3 | Respirable fraction. |

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3,5 mg/m3 |

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 5 mg/m3 | Inhalable dusts and mists. |
| | | 1 mg/m3 | Inhalable dust. |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Inhalable dust. |

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

| Components | Type | Value |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | STEL | 7 mg/m3 |
| | TWA | 3,5 mg/m3 |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

| | |
|---|---|
| **Predicted no effect concentrations (PNECs)** | Not available. |

**8.2. Exposure controls**

| | |
|---|---|
| **Appropriate engineering controls** | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. |

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **General information** | Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. |
| **Eye/face protection** | Chemical respirator with organic vapor cartridge and full facepiece. |
| **Skin protection** | |
| **- Hand protection** | Wear appropriate chemical resistant gloves. |
| **- Other** | Wear suitable protective clothing. Use of an impervious apron is recommended. |
| **Respiratory protection** | Chemical respirator with organic vapor cartridge and full facepiece. |
| **Thermal hazards** | Wear appropriate thermal protective clothing, when necessary. |
| **Hygiene measures** | Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |
| **Environmental exposure controls** | Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels. |

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Clear. |
| **Odor** | Slight. Pungent. |
| **Melting point/freezing point** | Not available. |
| **Boiling point or initial boiling point and boiling range** | Not available. |
| **Flammability** | Not applicable. |
| **Flash point** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **pH** | Not available. |
| **Kinematic viscosity** | Not available. |
| **Solubility** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water) (log value)** | Not available. |
| **Vapor pressure** | 0,00009 hPa estimated |
| **Density and/or relative density** | |
| **Density** | 1,08 g/cm³ |
| **Vapor density** | Not available. |
| **Particle characteristics** | Not available. |

**9.2. Other information**

| | |
|---|---|
| **9.2.1. Information with regard to physical hazard classes** | No relevant additional information available. |

**9.2.2. Other safety characteristics**

| | |
|---|---|
| **Specific gravity** | 1,08 |

## SECTION 10: Stability and reactivity

| | |
|---|---|
| **10.1. Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid** Contact with incompatible materials.

**10.5. Incompatible materials** Strong oxidizing agents.

**10.6. Hazardous decomposition products** No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed.

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** Harmful if swallowed.

| Components | Species | Test Results |
|---|---|---|
| Carbon Black (CAS 1333-86-4) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 8000 mg/kg |

**Skin corrosion/irritation** Due to partial or complete lack of data the classification is not possible.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory sensitization** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization** Due to partial or complete lack of data the classification is not possible.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity** Risk of cancer cannot be excluded with prolonged exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

**Reproductive toxicity** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Mixture versus substance information** No information available.

**11.2. Information on other hazards**

**Endocrine disrupting properties** This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Very toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

| | |
|---|---|
| **12.4. Mobility in soil** | No data available. |
| **12.5. Results of PBT and vPvB assessment** | This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. |
| **12.6. Endocrine disrupting properties** | This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight. |
| **12.7. Other adverse effects** | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Residual waste** | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| **Contaminated packaging** | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| **EU waste code** | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Disposal methods/information** | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Special precautions** | Dispose in accordance with all applicable regulations. |

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number** | UN3082 |
| **14.2. UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **14.3. Transport hazard class(es)** | |
| **Class** | 9 |
| **Subsidiary risk** | - |
| **Label(s)** | 9 |
| **Hazard No. (ADR)** | 90 |
| **Tunnel restriction code** | - |
| **14.4. Packing group** | III |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**RID**

| | |
|---|---|
| **14.1. UN number** | UN3082 |
| **14.2. UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **14.3. Transport hazard class(es)** | |
| **Class** | 9 |
| **Subsidiary risk** | - |
| **Label(s)** | 9 |
| **14.4. Packing group** | III |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**ADN**

| | |
|---|---|
| **14.1. UN number** | UN3082 |
| **14.2. UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **14.3. Transport hazard class(es)** | |
| **Class** | 9 |
| **Subsidiary risk** | - |
| **Label(s)** | 9 |
| **14.4. Packing group** | III |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

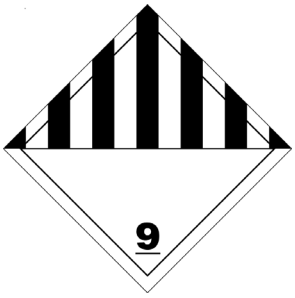
**IATA**

| | |
|---|---|
| **14.1. UN number** | UN3082 |
| **14.2. UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. |
| **14.3. Transport hazard class(es)** | |
| **Class** | 9 |
| **Subsidiary risk** | - |
| **14.4. Packing group** | III |
| **14.5. Environmental hazards** | No. |
| **ERG Code** | 9L |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **Other information** | |
| **Passenger and cargo aircraft** | Allowed with restrictions. |
| **Cargo aircraft only** | Allowed with restrictions. |

**IMDG**

| | |
|---|---|
| **14.1. UN number** | UN3082 |
| **14.2. UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **14.3. Transport hazard class(es)** | |
| **Class** | 9 |
| **Subsidiary risk** | - |
| **14.4. Packing group** | III |
| **14.5. Environmental hazards** | |
| **Marine pollutant** | No. |
| **EmS** | F-A, S-F |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **14.7. Maritime transport in bulk according to IMO instruments** | Not established. |

**ADN; ADR; IATA; IMDG; RID**




## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Carbon Black (CAS 1333-86-4)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**UFI:**

Austria: U440-40XK-800H-K52S
Belgium: U440-40XK-800H-K52S
Bulgaria: U440-40XK-800H-K52S
Croatia: U440-40XK-800H-K52S
Cyprus: U440-40XK-800H-K52S
Czech Republic: U440-40XK-800H-K52S
Denmark: U440-40XK-800H-K52S
Estonia: U440-40XK-800H-K52S
EU: U440-40XK-800H-K52S
Finland: U440-40XK-800H-K52S
France: U440-40XK-800H-K52S
Germany: U440-40XK-800H-K52S
Greece: U440-40XK-800H-K52S
Hungary: U440-40XK-800H-K52S
Iceland: U440-40XK-800H-K52S
Ireland: U440-40XK-800H-K52S
Italy: U440-40XK-800H-K52S
Latvia: U440-40XK-800H-K52S
Lithuania: U440-40XK-800H-K52S
Luxembourg: U440-40XK-800H-K52S
Malta: U440-40XK-800H-K52S
Netherlands: U440-40XK-800H-K52S
Norway: U440-40XK-800H-K52S
Poland: U440-40XK-800H-K52S
Portugal: U440-40XK-800H-K52S
Romania: U440-40XK-800H-K52S
Slovakia: U440-40XK-800H-K52S
Slovenia: U440-40XK-800H-K52S
Spain: U440-40XK-800H-K52S
Sweden: U440-40XK-800H-K52S

**Authorizations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered**

| | |
|---|---|
| 2,6-diamino-3,5-diethyltoluene;<br>4,6-diethyl-2-methyl-1,3-benzenediamine; [1]<br>2,4-diamino-3,5-diethyltoluene;<br>2,4-diethyl-6-methyl-1,3-benzenediamine; [2]<br>diethylmethylbenzenediamine [3] (CAS 68479-98-1) | 75 |

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

**Other EU regulations**

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- E1 Hazardous to the Aquatic Environment Acute
- E1 Hazardous to the Aquatic Environment Chronic

**Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations**

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances**

| | |
|---|---|
| Carbon Black (CAS 1333-86-4) | Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasernund Wollastonitfasern) |

**France regulations**

**France INRS Table of Occupational Diseases**

Not regulated.

**Product registration number**

| | |
|---|---|
| **Austria** | UFI: U440-40XK-800H-K52S |
| **Belgium** | UFI: U440-40XK-800H-K52S |
| **Czech Republic** | UFI: U440-40XK-800H-K52S |
| **Denmark** | UFI: U440-40XK-800H-K52S |

| | |
|---|---|
| **European Union** | UFI: U440-40XK-800H-K52S |
| **Finland** | UFI: U440-40XK-800H-K52S |
| **France** | UFI: U440-40XK-800H-K52S |
| **Germany** | UFI: U440-40XK-800H-K52S |
| **Greece** | UFI: U440-40XK-800H-K52S |
| **Hungary** | UFI: U440-40XK-800H-K52S |
| **Italy** | UFI: U440-40XK-800H-K52S |
| **Netherlands** | UFI: U440-40XK-800H-K52S |
| **Norway** | UFI: U440-40XK-800H-K52S |
| **Poland** | UFI: U440-40XK-800H-K52S |
| **Portugal** | UFI: U440-40XK-800H-K52S |
| **Slovakia** | UFI: U440-40XK-800H-K52S |
| **Slovenia** | UFI: U440-40XK-800H-K52S |
| **Spain** | UFI: U440-40XK-800H-K52S |
| **Sweden** | UFI: U440-40XK-800H-K52S |
| **Switzerland** | UFI: U440-40XK-800H-K52S |

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**List of abbreviations**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements, which are not written out in full under sections 2 to 15**

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

**Revision information** None.

**Training information** Follow training instructions when handling this material.

**Disclaimer** ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.