# SAFETY DATA SHEET

**Version: 3.0**
**Date of Issue: 19 March 2020**
**Date of First Issue: 20 March 2012**

**www.vishaypg.com**

**ACCORDING TO OSHA HCS (29 CFR 1910.1200)**

## SECTION 1: IDENTIFICATION

**Product identifier used on the label** M-Bond 200 Catalyst C

**Other means of identification** Not applicable

**Recommended use of the chemical and restrictions on use**

Recommended use: Adhesives
Restrictions on use: Anything other than the above.

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

Supplier: VISHAY MEASUREMENTS GROUP, INC.
Address of Supplier: Post Office Box 27777
Raleigh, NC 27611
USA
Telephone: +1 919-365-3800
Fax: +1 919-365-3945
E-Mail (competent person): mm.us@vishaypg.com

**Emergency telephone number** 1-800-424-9300 CHEMTREC (24 hours)

## SECTION 2: HAZARD(S) IDENTIFICATION

**Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200**

Physical hazards: Flammable Liquid, Category 2
Health hazards: Skin sensitization, Category 1
Eye Irritation, Category 2A
Specific target organ toxicity — single exposure, Category 1 (Blood)
Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects)
Environmental hazards: Not classified

Hazard Symbol

Signal Word(s): DANGER

Hazard Statement(s):
Highly flammable liquid and vapour.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Causes damage to organs (Blood, by ingestion or inhalation)

Precautionary Statement(s)
Prevention:
Wear protective gloves/protective clothing/eye protection/face protection.
Use only outdoors or in a well-ventilated area.
Wash hands and exposed skin thoroughly after handling.
Do not breathe vapour.
Do not eat, drink or smoke when using this product.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground and bond container and receiving equipment.
Use explosion proof electrical equipment.

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|---|---|
| | Use non-sparking tools.<br>Take precautionary measures against static discharges. |
| Response | In case of fire use water, alcohol resistant foam, carbon dioxide or dry agent.<br>IF exposed: Call a POISON CENTER or doctor/physician.<br>IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>If skin irritation occurs: Get medical advice/attention.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists, get medical advice/attention.<br>IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Call a POISON CENTER/doctor if you feel unwell.<br>Wash contaminated clothing before reuse.<br>Contaminated work clothing should not be allowed out of the workplace. |
| Storage | Store in a well-ventilated place. Keep cool. Keep container tightly closed.<br>Store locked up. |
| Disposal | Dispose of contents in accordance with local, state or national legislation. |
| **Other hazards** | None known. |
| **Percent of the mixture consists of ingredient(s) of unknown acute toxicity:** | Not applicable – mixture not classified as Acutely Toxic |

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances** Not applicable

**Mixtures** Substances in preparations / mixtures

| Chemical identity of the substance | %W/W | Synonym(s) | CAS No. | Hazard classification |
|---|---|---|---|---|
| Propan-2-ol | <100 | Isopropanol;<br>Isopropyl alcohol;<br>2-Propanol | 67-63-0 | Flammable Liquids - Category 2<br>Eye Irritation - Category 2A<br>Specific Target Organ Toxicity - Single Exposure - Category 3 (Narcotic Effects) |
| N-Phenyldiethanolamine | <5 | Ethanol, 2,2'-(phenylimino)bis-;<br>2,2'-Iminodi-N-phenylethanol | 120-07-0 | Skin Sensitization - Category 1<br>Eye Damage - Category 1<br>Specific Target Organ Toxicity - Single Exposure - Category 1 (Blood)<br>Aquatic Toxicity, Chronic - Category 3 |

## SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

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|---|---|
| Self-protection of the first aider | No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse. Wash hands and exposed skin thoroughly after handling. IF exposed: Call a POISON CENTER or doctor/physician. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| Skin Contact | IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse. |

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|---|---|
| Eye Contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. |
| Ingestion | If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If symptoms develop, obtain medical attention. Call a POISON CENTER/doctor if you feel unwell. |
| **Most important symptoms and effects, both acute and delayed** | Causes serious eye irritation. Causes damage to organs - Blood. May cause drowsiness or dizziness. May cause nausea/vomiting. May cause an allergic skin reaction. |
| **Indication of any immediate medical attention and special treatment needed** | Treat symptomatically. |

## SECTION 5: FIRE-FIGHTING MEASURES

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| **Extinguishing media** | |
| Suitable Extinguishing Media | In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing Media | Do not use water jet. Direct water jet may spread the fire. Phenolics. Amines. |
| **Special hazards arising from the substance or mixture** | Highly flammable liquid and vapour. Flash Point: 11.7 ℃ Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phenolics. Amines. The vapour may be invisible, heavier than air and spread along ground. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. |
| **Special protective equipment and precautions for fire fighters** | Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Caution - spillages may be slippery. Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Wear suitable respiratory protection. Use personal protective equipment as required. See Section: 8. Wash contaminated clothing before reuse. The vapour is heavier than air; beware of pits and confined spaces. |
| **Environmental precautions** | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. |
| **Methods and material for containment and cleaning up** | Ensure suitable personal protection (including respiratory protection) during removal of spillages. Use non-sparking equipment when picking up flammable spill. Bund storage facilities to prevent soil and water pollution in the event of spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste. |

## SECTION 7: HANDLING AND STORAGE

| | |
|---|---|
| **Precautions for safe handling** | Ensure adequate ventilation. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Highly flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| **Conditions for safe storage, including any** | Ground/bond container and receiving equipment. Keep container tightly closed. |

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| **incompatibilities** | Bund storage facilities to prevent soil and water pollution in the event of spillage. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from direct sunlight. |
| Storage temperature | Store at a cool/low temperature: 5 - 25℃ . Flash Point: 11.7 ℃<br>Vapour is explosive in air at temperatures higher than the flash point. |
| Storage life | Stable under normal conditions. |
| Incompatible materials | Keep away from: Strong reducing and oxidising agents. Acids (Nitric acid and Sulphuric acid), Halogens and halogenated compounds. |
| **Specific end use(s)** | Adhesives. |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m³) | STEL (ppm) | STEL (mg/m³) | Note |
|---|---|---|---|---|---|---|
| Propan-2-ol | 67-63-0 | 400 | 980 | 500 | 1225 | NIOSH |
| | | 400 | 980 | - | - | OSHA |
| | | 200 | - | 400 | - | ACGIH |

Source:
ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017
NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)
OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1

The other components listed in Section 3 do not have assigned occupational exposure limits.

**Biological Exposure Indices**

| SUBSTANCE | CAS No. | Determinant | Biological Exposure Indices | Sampling Time | Note |
|---|---|---|---|---|---|
| Propan-2-ol | 67-63-0 | Acetone in urine | 40 mg/l | End of shift at end of workweek | B, Ns |

Source: ACGIH: American Conference of Governmental Industrial Hygienists **-** Biological Exposure Index (BEI) 2017

Note:
B: Background
Ns: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

The other components listed in Section 3 do not have assigned Biological Exposure Indicies.

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|---|---|
| **Appropriate engineering controls** | Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Remove all ignition sources. A washing facility/water for eye and skin cleaning purposes should be present. |
| **Individual protection measures, such as personal protective equipment (PPE)** | General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Do not breathe vapour. Avoid contact with skin and eyes. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place. |
| Eye/face protection  | Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection. Recommended: Equivalent or similar to EN166 |
| Skin protection | **Hand protection:**<br>Wear impervious gloves. Recommended: Equivalent or similar to EN374.<br>Gloves should be changed regularly to avoid permeation problems. Breakthrough |

time of the glove material: refer to the information provided by the gloves' producer.

During full contact:
Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.
Recommended: Nitrile rubber (Minimum thickness: 0.33 mm); Butyl rubber (Minimum thickness: 0.5 mm)

During splash contact:
Recommended: At least protective index 5, corresponding > 240 minutes of permeation time according to EN 374
Recommended: Polychloroprene - CR (Minimum thickness: 0.5 mm)

Unsuitable gloves materials:
Natural rubber/natural latex, Polyvinyl chloride - PVC.

**Body protection:**
Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection.
For large quantities - A suitable mask with filter type A may be appropriate. (Recommended: EN141 or EN405)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Information on basic physical and chemical properties** | Physico-chemical properties of substance: Propan-2-ol. |
| Appearance | Blue Coloured liquid. |
| Odor | Alcohol-like Odour |
| Odor Threshold | Not available. |
| pH | Not established. |
| Melting Point/Freezing Point | -88.5℃ |
| Initial boiling point and boiling range | 82.3℃ (Mixture) |
| Flash Point | 11.7 ℃ |
| Evaporation rate (Butyl acetate = 1) | 2.83 (BuAc = 1) |
| Flammability (solid, gas) | Not applicable - Liquid |
| Upper/lower flammability or explosive limits | Not available. |
| Vapour pressure | 6.02 kPa at 25ºC |
| Vapour density | 2.1 (Air = 1) |
| Relative density | 0.78 (H2O = 1) |
| Solubility(ies) | 98% (Water) |
| Partition coefficient: n-octanol/water | 0.05 log Pow (25 ℃) |
| Auto-ignition temperature | 399 ℃ |
| Decomposition Temperature | Not available. |
| Viscosity | 2.038 mPa s (dynamic) 25 ℃ |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | Stable under normal conditions. |
| **Chemical stability** | Stable under normal conditions. |
| **Possibility of hazardous reactions** | Highly flammable liquid and vapour. The vapour may be invisible, heavier than air and spread along ground. Vapour is explosive in air at temperatures higher than the flash point. |
| **Conditions to avoid** | Store at temperatures not exceeding (℃): 25 ℃ .<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |

| | |
|---|---|
| **Incompatible materials** | Keep away from: Strong reducing and oxidising agents. Acids (Nitric acid and Sulphuric acid), Halogens and halogenated compounds. |
| **Hazardous decomposition product(s)** | Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide. Phenolics. Amines. The vapour may be invisible, heavier than air and spread along ground. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects (Substances in preparations / mixtures)**

| | |
|---|---|
| **Acute toxicity - Ingestion** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. |
| **Acute toxicity - Inhalation** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 >20.0 mg/l. |
| **Acute toxicity - Skin Contact** | Based upon the available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day. |
| **Skin corrosion/irritation** | Mixture: Based upon the available data, the classification criteria are not met. |
| **Serious eye damage/irritation** | Mixture: Eye Irritation, Category 2A: Causes serious eye irritation. |
| Propan-2-ol: | Eye Irritation, Category 2<br>Irritating to eyes. (rabbit) (OECD 405) |
| 2,2'-phenyliminodiethanol | Eye Damage, Category 1<br>Corrosive to eyes. (rabbit) (Unnamed publication , 1974) |
| **Respiratory or skin sensitization** | Mixture: Skin sensitization, Category 1; May cause an allergic skin reaction. |
| N-Phenyldiethanolamine | Skin Sensitisation, Category 1<br>Sensitisation (mouse) - Positive (OECD 442 B) |
| **Germ cell mutagenicity** | Mixture: Based upon the available data, the classification criteria are not met. |
| **Carcinogenicity** | Mixture: Based upon the available data, the classification criteria are not met. |
| **Reproductive toxicity** | Mixture: Based upon the available data, the classification criteria are not met. |
| **STOT - single exposure** | Mixture: Specific target organ toxicity — single exposure, Category 1; Causes damage to organs. (Blood circulatory system).<br>Mixture: Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects); May cause drowsiness or dizziness. |
| Propan-2-ol: | Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects); May cause drowsiness or dizziness.<br>Test Result: Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness. LD50 (rat) > 10000 ppm. Effects and Symptoms: Ataxia (impaired locomotor coordination), Narcosis<br>(OECD 403) |
| N-Phenyldiethanolamine | Specific target organ toxicity — single exposure, Category 1; Causes damage to organs (Blood).<br>LD50 (oral,rat) mg/kg: 3400. Dyspnoea, Narcosis. Can form methaemoglobin in the blood, causing cyanosis. (Unnamed publication , 1974) |
| **STOT - repeated exposure** | Mixture: Based upon the available data, the classification criteria are not met. |
| **Aspiration hazard** | Mixture: Based upon the available data, the classification criteria are not met. |

**Information on likely routes of exposure**

| | |
|---|---|
| Inhalation | Possible – accidental exposure. |
| Ingestion | Unlikely – accidental exposure. |
| Skin Contact | Possible – accidental exposure. |
| Eye Contact | Unlikely – accidental exposure. |

| | |
|---|---|
| **Early onset symptoms related to exposure** | Causes serious eye irritation. Causes damage to organs - Blood. May cause drowsiness or dizziness. May cause an allergic skin reaction. |

**Delayed health effects from exposure** None known.

**Other information**

| | |
|---|---|
| NTP Report on Carcinogens | None of the components are listed. |
| IARC Monographs | Propan-2-ol: Group 3 |
| OSHA Designated Carcinogen | None of the components are listed. |

## SECTION 12: ECOLOGICAL INFORMATION

| | | |
|---|---|---|
| **Ecotoxicity** | | Mixture: Based upon the available data, the classification criteria are not met.<br>Estimated Mixture LC50 >100 mg/l (Fish) |
| | N-Phenyldiethanolamine: | Aquatic Toxicity, Chronic - Category 3<br>Acute: LC50 (fish) mg/l 735 (96 hour) (OECD 203)<br>Chronic: EC50 Aquatic invertebrates: 87.85 mg/l (Unnamed, 1995) |
| **Persistence and degradability** | | No data for the mixture as a whole. |
| | Propan-2-ol: | Readily biodegradable.<br>Water % Degradation: 53% (Bridié AL et al. 1979) |
| | N-Phenyldiethanolamine: | Not readily biodegradable. Weight of evidence approach:<br>% Degradation: 2% ((Q)SAR) (2015) |
| **Bioaccumulative potential** | | No data for the mixture as a whole. The product is predicted to have low potential for bioaccumulation |
| | Propan-2-ol: | The substance has low potential for bioaccumulation. Log Kow < 3.<br>ECHA Registration Endpoint summary: Bioaccumulation |
| | N-Phenyldiethanolamine: | The substance has low potential for bioaccumulation. Weight of evidence approach: Log Kow: 0.63 ((Q)SAR) (US-EPA, 2012) |
| **Mobility in soil** | | No data for the mixture as a whole. The product is predicted to have high mobility in soil. |
| | Propan-2-ol: | The substance is predicted to have high mobility in soil.<br>Log Pow: < 3; Miscible with water. |
| | N-Phenyldiethanolamine: | The substance is predicted to have high mobility in soil. Soluble in water. |
| **Other adverse effects** | | Mixture: The product is predicted to be not classified as PBT or vPvB.<br>None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance. |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods** This material and its container must be disposed of as hazardous waste. Containers of this material may be hazardous when empty since they retain product residue. Dispose of wastes in an approved waste disposal facility. Dispose of contents in accordance with local, state or national legislation.

## SECTION 14: TRANSPORT INFORMATION

| | ADR/RID | IMDG | IATA |
|---|---|---|---|
| **UN number** | UN 1219 | UN 1219 | UN 1219 |
| **UN proper shipping name** | ISOPROPANOL (ISOPROPYL ALCOHOL) mixture | ISOPROPANOL (ISOPROPYL ALCOHOL) mixture | ISOPROPANOL (ISOPROPYL ALCOHOL) mixture |
| **Transport hazard class(es)** | 3 | 3 | 3 |
| **Packing group** | II | II | II |
| **Environmental hazards** | Not classified | Not classified as a Marine Pollutant. | Not classified |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**Special precautions for user** See Section: 2

**Additional Information** None.

## SECTION 15: REGULATORY INFORMATION

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

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|---|---|
| **US Federal Regulations** | |
| TSCA (Toxic Substance Control Act) | All components are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA). |
| EPCRA/SARA Section 302 Extremely Hazardous Substances | Not Listed |
| EPCRA Section 313 Toxics Release Inventory (TRI) Program | Propan-2-ol: De Minimis limit: 1% |
| NIOSH Occupational Carcinogen List | Not Listed |
| OSHA List of highly hazardous chemicals, toxics and reactives | Not Listed |
| NTP Report on Carcinogens (RoC) List | Not Listed |
| Poison Prevention Packaging Act | Not Listed |
| **US State Regulations** | None known. |
| California State, Proposition 65 List | Not Listed |
| California State, Safer Consumer Products Regulations | Propan-2-ol: Candidate Chemicals List |
| Maine State, Toxic Chemicals in Children's Products Act | Not Listed |
| New Jersey State Worker and Community RTK Act | Propan-2-ol: RTKHSL. SHHSL |
| Pennsylvania State, Worker and Community RTK Act | Propan-2-ol: Hazardous Substance List. Environmental Hazard List |
| Rhode Island State, Hazardous Substances RTK Act | Propan-2-ol: Hazardous Substance List. |
| **Non-Regional** | |
| IARC Monographs, List of Classifications | Propan-2-ol: Group 3 |

## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

**The following sections have updates indicated by :**

| | |
|---|---|
| **Version** | 3.0 |
| **Revision Date** | 27 February 2020 |
| **Date of First Issue** | 20 March 2012 |

**References:**

Existing Safety Data Sheet (SDS)
Existing ECHA registration(s) for and Harmonised Classification(s) for Propan-2-ol (CAS No. 1330-20-7).
Existing ECHA registration(s) for N-Phenyldiethanolamine (CAS No.120-07-0)

| GHS Classification of the substance or mixture | Classification Procedure |
|---|---|
| Flammable Liquid, Category 4 | Supplier Flash Point Range Data |
| Skin Corrosion/Irritation, Category 2 | Threshold Calculation |
| Eye Irritation, Category 2A | Threshold Calculation |
| Specific target organ toxicity — single exposure, Category 1 (Blood) | Threshold Calculation |
| Specific target organ toxicity — single exposure, Category 3 (Narcotic Effects) | Threshold Calculation |

**LEGEND**

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
BEI: Biological Exposure Indices (ACGIH)
CAS: Chemical Abstracts Service
ECHA: European Chemicals Agency
EPCRA: Emergency Planning and Community Right-to-Know Act
PBT: Persistent, Bioaccumulative and Toxic
PEL: Permissible exposure limit
QSAR: Quantitative structure-activity relationship
RID: International Carriage of Dangerous Goods by Rail
REL: Recommended exposure limit
RTK: Right-to-Know

IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
LTEL: Long Term Exposure Limit
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: The Occupational Safety & Health Administration
SARA: Superfund Amendments and Reauthorization Act
SCL: Specific Concentration Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit value
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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