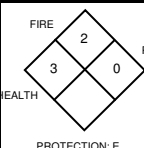


MATERIAL SAFETY DATA SHEET

Revision date: Aug 2019

| | | | | |
|---|--|---|--|----------|
| 1 | Identification | Manufacturer Name | Nikita Transphase Adducts (P) Ltd, T-96 Tarapur MIDC, Boisar, 401 506, India Office: +91.22.2444 0141/0142, +91.22.6615 8844 | |
| | | Supplier Names | Nikita Transphase Adducts (P) Ltd, T-96 Tarapur MIDC, Boisar, 401 506, India Office: +91.22.2432 8735, Fax: +91.22.2432 3647 | |
| | | Product Name | Formaldehyde solution | |
| | | Trade Name(s) | Formasol 50 | |
| | | Chemical Name | Formaldehyde Methanol Solution | |
| 2 | Composition Information on Hazardous Ingredients | Ingredient Name | Formaldehyde | Methanol |
| | | Percentage | > 49% | >45% |
| | | CAS Number | 50-0-0 | 67-56-1 |
| 3 |  <p>Hazards Identification</p> | General | Liquid and Vapours are flammable. | |
| | | Eye | Causes eye irritation and burns. Prolonged and excessive contact can cause blindness. | |
| | | Skin | Causes skin irritation and burns. The toxicological properties of this material have not been fully investigated. | |
| | | Ingestion | Causes severe irritation of the digestive tract. May cause blindness or be fatal if ingested. Will cause nausea, dizziness, headache, | |
| | | Inhalation | Harmful if inhaled. Will cause respiratory tract, throat irritation. | |
| | | Chronic | No information found. | |
| | | Carcinogenic | Prolonged exposure to Formaldehyde is considered carcinogenic to the nasopharyngeal region. It is listed as OSHA carcinogen/ Anticipated Carcinogen by NTP. | |
| 4 | First Aid Measures | Eye | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get Medical aid. | |
| | | Skin | Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing and destroying contaminated clothing and shoes. | |
| 5 | Fire Fighting Measures | <p>As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear, During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid.</p> <p>Extinguishing Media :</p> <p>In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire.</p> | | |
| 6 | Accidental Release Measures | <p>Eliminate Ignition sources.</p> <p>General Information : Use proper personal protective equipment as indicated in Section 8.</p> <p>Spills/Leaks : Use film forming foams to cover spillage. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways, Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition. Provide ventilation.</p> | | |

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| | | | |
|------------------|--|--|--|
| 7 | Handling and Storage | Handling | Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, sparks or open flames. Product may generate static charge. Ensure all storage tanks, transfer pumps, lines are properly insulated. |
| | | Storage | Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Product may generate static charge. Ensure all storage tanks, transfer pumps, lines are properly insulated |
| 8 | Exposure Controls / Personal Protection | Engineering Control | Use adequate ventilation to keep airborne concentrations low. Exposure Limits Personal Protective Equipment. Dilution Ventilation is generally not sufficient. |
| | | Eyes | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulation in 29 CFR 1910.133 or European Standard EN166. |
| | | Skin | Wear appropriate protective gloves to prevent skin exposure. |
| | | Clothing | Wear appropriate protective clothing to prevent skin exposure. |
| | | Respirators | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| 9 | Physical & Chemical Properties | Physical State | Liquid |
| | | Color | Colorless to light yellow |
| | | Odor | Strong pungent characteristic formaldehyde odour. |
| | | pH | 4-7 |
| | | Sp gr | Approx 1 |
| | | Viscosity | Not available |
| | | Boiling Point | About 85 deg C |
| | | Freezing/Melting Point | Below 0 deg C |
| | | Autoignition Temperature | Not available |
| | | Flash Point | 43 deg C |
| | | Explosion Limits, lower | Not available |
| | | Explosion Limits, upper | Not available |
| | | Decomposition Temperature | |
| | | Solubility in water | Miscible |
| Molecular Weight | Formaldehyde : 30 Methanol : 32 Water : 18 | | |
| 10 | Stability & Reactivity | Chemical Stability | Stable under normal temperatures and pressures. |
| | | Conditions to Avoid | Incompatible material, ignition sources, excess heat, strong oxidants |
| | | Incompatibilities with other Materials | Oxidizing agents |
| | | Hazardous Decomposition products | Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide |
| | | Hazardous Polymerization | Has not been reported |

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| | | | |
|---------------------|------------------------|--|--|
| 11 | Toxicology | Primary target Organs | Eye, Skin |
| | | Primary Entry Route (s) | Eye, Skin |
| | | Medical Conditions aggravated by Overexposure | None Know |
| | | ACUTE TOXICITY | |
| | | PARAMETER | RESULT |
| | | Acute Oral Toxicity | Oral LD50 : 800 mg/kg (rats) |
| | | Acute Inhalation Toxicity | LC50 474ppm (rats/4hours) |
| | | Acute Dermal Toxicity | LD50 270mg/kg (rabbit) |
| | | Eye Irritancy | Severe |
| | | Dermal Irritancy | Full strength 24 hours |
| Skin Sensitization | Not determined | | |
| 12 | Ecological Information | Ecotoxicity | Not Determined |
| | | Mobility | Not Determined |
| | | Persistence and Degradability | Not Determined |
| | | Bioaccumulation Potential other Adverse Effects | Not Determined |
| | | Ozone Depleting Substances | Nonet |
| 13 | Disposal Consideration | Disposal Methods | This material, if discarded, is considered a hazardous. Incineration is best option. |
| | | Safe Handling of Wastes | Refer to section 8 for information pertaining to personal protective equipment and exposure controls when handling this material for disposal. |
| | | Community Provision | Dispose of this material at a local, state or federally approved land fill, incinerator or recovery facility. |
| 14 | Transport Information | Emergency Response Guidebook | As per Indian Transport rules. |
| | | Dot Bulk Shipping name | Formaldehyde Solutions |
| | | UN No | 2209 |
| | | Hazard Class | 8 |
| | | Packing Grp | III |
| | | DOT Label (s) | NA |
| | | ADR/RID Classification | NA |
| IATA Classification | Corrosive | | |
| 15 | Regulatory Information | CHEMICALS INVENTORIES STATUS | |
| | | India and Overseas | Compliant |
| 16 | Other Information | This product is a used to mask foul odours of industrial products. | |

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