| 1. IDENTIFICATION OF SU | BSTANCE AND SUPPLIER | | |
|---|--|--|--|
| Name On Label Product Number Supplier | -(Carbethoxymethyl)piperazine 5391 ohnson Matthey Catalog Company Inc. 0 Bond Street, Ward Hill, Massachusetts, 01835-8099 mergency Telephone Number: (978) 521-6300; CHEMTREC: (800) 424-9300 | | |
| Alternative Names | None in common use. | | |
| 2. COMPOSITION AND INF | ORMATION ON COMPONENTS | | |
| Name Minor Impurities CAS No. | N-(Carbethoxymethyl)piperazine Not determined 40004-08-8 EINECS No. 2547453 EEC No. | | |
| 3. HAZARDS IDENTIFICAT | ION | | |
| Designation | IRRITANT | | |
| Risk Phrases | R36/37/38 Irritating to eyes, respiratory system and skin. | | |
| 4. FIRST AID MEASURES | | | |
| Inhalation Eye Contact | emove to fresh air. If breathing is difficult give oxygen and seek medical attention. ush with copious amounts of water for at least 15 minutes. If irritation persists, seek medical rention. | | |
| Skin Contact | Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. If rritation persists or other symptoms are observed, seek medical advice. | | |
| Ingestion | Rinse out mouth and drink lots of water. In case of irritation or other symptoms, seek medical attention. | | |
| 5. FIRE FIGHTING MEASU | RES | | |
| Extinguishing Medium Protective Equipment | lse fire fighting measures which suit the environment and take into account other materials which nay be involved. In general, water-based extinguishers should not be used for fires involving rganic materials. Use carbon dioxide or dry powder. Vear self-contained breathing apparatus and protective clothing. | | |
| | mbustion may include: carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide. | | |
| 6. ACCIDENTAL RELEASE | MEASURES | | |
| Personal Protection | Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons | | |
| Environmental Protection Collection | away. Take precautions to ensure product does not contaminate the ground or enter the drainage system. Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal. | | |
| 7. HANDLING AND STORA | GE | | |
| Handling | cals should be used only by those trained in handling potentially hazardous materials. Rubber , eye protection and protective clothing should be worn. Operations should be carried out in cient fume hood or equivalent system. | | |
| Storage | Store in tightly sealed containers in a cool place. Protect from moisture. | | |
| 8. EXPOSURE CONTROLS | AND PERSONAL PROTECTION | | |
| Respiratory Eye Hands and Body | Avoid inhalation of product. Handle in an efficient fume hood or equivalent system. Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask. Irritant product. Avoid skin contact. Wear rubber gloves, protective clothing and, for larger quantities, full arm, body and face protection. Wash hands thoroughly after handling. | | |

Continued on next page...

15391 continued.

| 9. PHYSICAL AND CHEM | ICAL PROPERTIES | | | |
|--|--|---------------------------------|--|--|
| Appearance Physical Constants Molecular formula Water solubility Flash Point | Not available C ₈ H ₁₆ N ₂ O ₂ Not available | Formula Wt. Density | 172.23 1.386 | |
| 10. STABILITY AND REA | СТІVІТҮ | | | |
| Specific Hazard | | | | |
| Incompatibilities Decomposition | Strong oxidising agents. Strong acids. Hazardous products of decomposition may include:carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, hydrogen cyanide. | | | |
| 11. TOXICOLOGICAL INF | ORMATION | | | |
| RTECS No. | Not listed | | | |
| Acute Toxicity | LD ₅₀ : No data reported Irritating to eyes, respiratory system and skin. | | | |
| 12. ECOLOGICAL EFFEC | TS | | | |
| General | Take care to prevent of | chemicals from entering the gro | und, water courses or drainage systems. | |
| 13. DISPOSAL CONSIDE | RATIONS | | | |
| Disposal | Disposal should be via an approved contractor and should take full account of local regulations. | | | |
| 14. TRANSPORT INFORM | ATION | | | |
| UN Number | | | | |
| Land Transport Maritime Transport Air Transport | ADR/RIC Code/Class Not Restricted IMDG Code/Class Not Restricted IATA Code/Class Not Restricted | | | |
| 15. REGULATORY INFOR | RMATION | | | |
| CAS No. 40004-08-8 | EINECS No. 2547453 | B EEC No. UN No. | None RTECS No. Not listed | |
| Hazard Indication | IRRITANT | | | |
| Risk & Safety Phrases | Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. | | | |
| TSCA | Not listed. For research and development use only. | | | |
| 16. OTHER INFORMATIO | N | | | |
| It must be recognised that possibly hazardous produc | the physical and chemica ts may arise from reaction and shall not constitute a | ns between chemicals. The info | not be fully understood and that new, ormation given in this data sheet is based luct features and shall not establish a | |

Date of Last Review:3rd August 1998Date Printed:18th September 1998