

Product Type	GLYOXAL 40% FOR SYNT
Product Code	RXSOL-60-6604-650

Company Details:

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Substance / Preparation : GLYOXAL 40% CAS No : 107- 22- 2 Substance. Contains no other components or impurities which will influence the classification of the product. 3.1. Classification of the substance or mixture Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/37/38 Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Health hazards : Specific Target Organ Toxicity - Single exposure - Category 2 - Warning (CLP : STOT SE 2) H371 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319 3.2. Label elements Labelling EC 67/548 or EC 1999/45 Symbol(s) : Xi : Irritant R Phrase(s) : R36/37/38 : Irritating to eyes, respiratory system and skin. S Phrase(s) : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 : Wear suitable protective clothing. Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms Signal words : Warning Hazard statements : H319 : Causes serious eye irritation. H315 : Causes skin irritation. H317 : May cause an allergic skin reaction. H332 : Harmful if inhaled. H335 : May cause respiratory irritation. H371 : May cause damage to organs. Precautionary statements • Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. • Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water. P309+P311: IF exposed or if you feel unwell : Call a POISON CENTER or doctor. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P333+P313: If skin irritation or rash occurs : Get medical advice. P363: Wash contaminated clothing before reuse. • Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up. • Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 3.3. Other hazards Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. 4.1. Description of first aid measures Inhalation : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. Skin contact : If skin irritation or rash occurs : Specific treatment (see on this label). Wash contaminated clothing before reuse. Get medical advice. Wash with plenty of soap and water. Eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists : Get medical advice. Ingestion : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. 4.2. Most important symptoms and effects, both acute and delayed Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May

cause damage to organs. 4.3. Indication of any immediate medical attention and special treatment needed General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). 5.1. Extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. Surrounding fires : Use water spray or fog for cooling exposed containers. 5.2. Special hazards arising from the substance or mixture Hazardous combustion products : Under fire conditions, hazardous fumes will be present. 5.3. Advice for fire-fighters Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. 6.1. Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray. For non-emergency personnel : Evacuate unnecessary personnel. 6.2. Environmental precautions Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. 6.3. Methods and material for containment and cleaning up Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. 6.4. Reference to other sections See section 8. Exposure controls/personal protection 7.1. Precautions for safe handling Personal protection : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Handling : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray. 7.2. Conditions for safe storage, including any incompatibilities Storage : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. 7.3. Specific end use(s) Specific end use(s) : None.

8.1. Exposure controls Personal protection : Avoid all unnecessary exposure. • Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. • Hand protection : Wear protective gloves. • Skin protection : Wear suitable protective clothing. • Eye protection : Chemical goggles or safety glasses. • Others : When using, do not eat, drink or smoke. 8.2. Control parameters Occupational Exposure Limits : No data available.

9.1. Information on basic physical and chemical properties Physical state at 20 °C : Liquid. Colour : Clear Colorless Odour : Characteristic odour Odour threshold : No data available. pH value : No data available. Melting point [°C] : No data available. Decomposition point [°C] : N/A Critical temperature [°C] : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) : N/A Flash point [°C] : N/A Boiling point [°C] : 51°C Initial boiling point [°C] : N/A Final boiling point [°C] : N/A Evaporation rate : N/A Vapour pressure [20°C] : 17.535 mm of Hg (@ 2 Vapour pressure mm/Hg : 17.535 mm of Hg (@ 2 Vapour density : 0,62 Density [g/cm3] : 1.270 g/cm3 Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A Solubility in water [% weight] : Soluble in water Solubility in water : N/A Log Pow octanol / water at 20°C : No data available. Solubility : Neutral. Viscosity at 40°C [mm2/s] : N/A 9.2. Other information Explosive properties : N/A Explosion limits - upper [%] : N/A Explosion limits - lower [%] : N/A Oxidising properties : No data available. 10.1. Reactivity Reactivity : Not established. 10.2. Chemical stability Chemical stability : Stable under recommended storage conditions. 10.3. Possibility of hazardous reactions Hazardous reactions : Not established. 10.4. Conditions to avoid Conditions to avoid : Direct sunlight. Extremely high or low temperatures. 10.5. Incompatible materials Materials to avoid : Strong acids. Strong bases. 10.6. Hazardous decomposition products Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide. 11.1. Information on toxicological effects Acute toxicity • Inhalation : Harmful if inhaled. • Dermal : Based on available data, the classification criteria are not met. • Ingestion : Based on available data, the classification criteria are not met. Corrosion : Based on available data, the classification criteria are not met. Irritation : Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Sensitization : May cause an allergic skin reaction. Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxic for reproduction : Based on available data, the classification criteria are not met. STOT-single exposure : Causes damage to organ. STOT-repeated exposure : Based on available data, the classification criteria are not met. Aspiration hazard : Based on available data, the classification criteria are not met. 12.1. Toxicity Toxicity information : Not established. 12.2. Persistence - degradability Persistence - degradability : Biodegradable. 12.3. Bioaccumulative potential Bioaccumulative potential : Not established. 12.4. Mobility in soil Mobility in soil : Not established. 12.5. Results of PBT and vPvB assessment Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. 12.6. Other adverse effects Environmental precautions : Avoid release to the environment.

13.1. Waste treatment methods General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 14.1. Land transport (ADR-RID) General information : Not regulated. 14.2. Sea transport (IMDG) [English only] General information : Not regulated. 14.3. Air transport (ICAO-IATA) [English only] General information : Not regulated.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. 15.2. Chemical Safety Assessment Chemical Safety Assessment : It has not been carried out. Abbreviations and acronyms :

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.