

SAFETY DATA SHEETS

This SDS packet was issued with item:


078944693

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078846089 078846097 078846105 078846113 078918211 078937219 078944692

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078918208 078918209 078918210

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SDS No.	SDS/ API/ 003	Effective Date	28/01/2016
Rev No.	01	Review Date	27/01/2018

Section 1: Chemical Product and Company Identification

Product Name: Methocarbamol

Synonyms: Guaiacol glycerol ether carbamate

Category: Muscle relaxant

CAS No.: 532-03-6

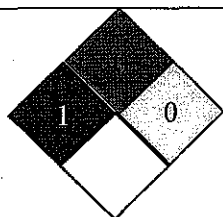
Molecular Weight: 241.2 g/mole

Chemical Formula: C₁₁H₁₅NO₅

Hazard class emblem:

Health	1
Fire	0
Reactivity	0
Personal Protection	

NFPA Rating emblem :



Contact Information:

Jeedimetla Address :

M/s Granules India Limited,
15A/1, Phase-III, IDA Jeedimetla,
Hyderabad - 500 055, T.S. India.
Phone : 040 – 3066 0200
Office : 040 – 3066 7100

Section 2: Hazard(s) identification

NFPA Ratings (0-4)

HEALTH=1 FIRE=0 REACTIVITY=0


EC Classification

(R) Risk Phrases R22- Harmful if ingested

(S) Safety Phrases S22- Do not breathe dust.


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Classification, Labeling and Package (CLP Regulations, EC No. 1272/2008 and packaging of substances and Mixtures):

Carcinogenic – Not classified according to the CLP regulations

Mutagenic – Not classified according to the CLP regulations

Toxicity –1) Acute Toxicity (oral)- Category 4

2) Classified as per the CLP regulation as Specific Target Organ Toxicant- Single Dose Exposure- Category 3 (STOT SE 3)

Hazard Classification	Hazard Statement	Signal Word	Pictogram
Category 4	H302: Harmful if swallowed		
Category 3	H336: May cause drowsiness/dizziness.	Warning	

Precautionary Statements

P260: Do not breath dust.

P243: Take precautionary measures against static discharge.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present


P312: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 3: Composition/ information on ingredients

CAS Number.	532-03-6
EC Number (EINECS)	Not Applicable
Percentage	100.0 by weight


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Section 4: First-aid Measures

Inhalation: Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

Skin Contact: Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

Ingestion: If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

Section 5: Fire-fighting measures

Fire and Explosion Hazards	Slight fire hazard.
Extinguishing Media	Regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.
Fire Fighting	Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6: Accidental Release Measures

Occupational Release	Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.
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Section 7: Handling and Storage


Handling	Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. This material is a pharmaceutical; handle in accordance with all current regulations and standards.
Storage	Preserve in tight containers and store at controlled room temperature.

Section 8: Exposure Controls/ Personal Protection

Exposure Limits	No occupational exposure limits established.
Engineering Controls	Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.
Protective clothing:	
Eye Protection	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin Protection	Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.
Respiratory Protection	Under conditions of frequent use or heavy exposure, respiratory protection may be needed. When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes.


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Work Practice Controls Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

Section 9: Physical and Chemical Properties


Physical nature	Crystalline powder
Odor	Not available
Molecular Weight	241.2
Molecular Formula	$C_{11}H_{15}NO_5$
Melting Range	92-94°C
Vapor Pressure	Not available
Vapor Density (air=1)	Not available
Water Solubility	Sparingly soluble in water
pH	Neutral
Flash Point	Not available
Auto Ignition Point	Not available
Explosion Limit	Not available
Solvent Solubility	Soluble in alcohol

Section 10: Stability and Reactivity Data

Reactivity	Stable at normal temperatures and pressure.
Conditions to Avoid	Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.


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Incompatibilities	Acids, Bases, Oxidizing materials With strong oxidizers: Fire and explosion hazard.
Decomposition	May occur thermal decomposition. The decomposition products are oxides of carbon, nitrogen
Polymerization	Not available

Section 11: Toxicological Information

Toxicity Data	Oral toxicity (LD50) : 1472 mg/ kg (Rat)
HEALTH EFFECTS	
Acute inhalation	Confusion.
Acute skin	May cause irritation and Skin rashes.
Acute Eye	Blurred vision
Acute ingestion	May cause nausea, anorexia, Blurred vision, Dizziness.
Chronic Exposure	Lightheadedness, Gastrointestinal Discomfort
Chronic Toxicity	This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.
Classification as per CLP Regulation	Classified as 1.Acute Toxicity- Category 4 2. Specific Target Organ Toxicant- Single Dose Exposure- Category 3 (STOT SE 3)


Section 12: Ecological Information

Environmental Hazards	No known significant effects or critical hazards.
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Section 13: Disposal Considerations

Waste Disposal Method	Dispose in accordance with all applicable regulations.
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Section 14: Transport Information

Shipping Name	Not regulated.
Land Transport ADR/RID	No classification assigned.
Air Transport IATA/ICAO	No classification assigned.
Maritime Transport IMDG	No classification assigned.

Section 15: Other Regulatory Information

This safety datasheet complies with the requirements of regulation (EC) No.1272/2008

Section 16: Other Information

National Fire Protection Association Hazard Ratings—NFPA:

1	Health Hazard Rating—Slight
0	Flammability Rating—Minimal
0	Instability Rating—Minimal

National Paint & Coating Hazardous Materials Identification System—HMIS:


1	Health Hazard Rating—Slight
0	Flammability Rating—Minimal
0	Reactivity Rating—Minimal

Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 TLV - Threshold Limit Value
 EC - European Community
 EINECS - European Inventory of existing commercial chemical substances
 PEL - Permissible Exposure Limit
 TWA - Time Weighted Average
 STEL - Short Term Exposure Limit
 NTP - National Toxicology Program
 IARC - International Agency for Research on Cancer
 CLP - Classification, Labeling and Package Regulations
 ND - Not determined
 STOT - Specific Target Organ Toxicity


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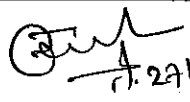
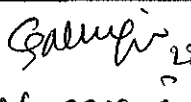
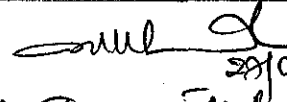
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Rev. History of SDS


Revision No.	Details	Carried out by	Date
00	New	Associate Officer - SE	27/01/2014
01	Updated the SDS as per current OSHA regulations (Standards – 29 CFR)	Officer - SE	27/01/2016

Ref. SDS (s):

Prepared By:	Reviewed By:	Authorized by
 A. NAGESWARA RAO OFFICER - SE SE – Representative	 G. Nagaraj Asst. Manager - SE HOD/ Designee -SE	 M. Jagannathan Reddy AEM - QA HOD/ Designee - QA

**** END OF SDS DOCUMENT ****

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