



DR. J. PHARMACHEM (INDIA)

MATERIAL SAFETY DATA SHEET	
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifiers
	Product Name Malonamide
	CAS NO. 108-13-4
1.2	Relevant identified uses of the substance or mixture and uses advised against
	Identified uses Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet
	COMPANY DR. J. PHARMACHEM (INDIA)
	722/AB/15 'NIRMAL' ,LAXMI PARK COLONY,
	NAVI PETH , PUNE- 411 030.INDIA
	Telephone : 020-24530071
	Fax : 020-24530110
2	HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.
2.2	Label elements
	The product does not need to be labelled in accordance with EC directives or respective national laws.
2.3	Other hazards none
3	COMPOSITION/INFORMATION ON INGREDIENTS
3.1	Substances
	Synonyms Malonodiamide; Propanediamide
	Formula C3H6N2O2
	Molecular Weight 102.09 g/mol
	Component Concentration
	Malonamide Min 98%
	Other unknown impurities Up to 2%
4	FIRST AID MEASURES
4.1	Description of first aid measures
	General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.





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	In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
	In case of eye contact	Flush eyes with water as a precaution.
	If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed	
		To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
4.3	Indication of any immediate medical attention and special treatment needed	
		No data available
5	FIREFIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture	Carbon oxides, nitrogen oxides (NOx)
5.3	Advice for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
5.4	Further information	No data available
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	
		Avoid dust formation. Avoid breathing vapors, mist or gas.
6.2	Environmental precautions	
		Do not let product enter drains
6.3	Methods and materials for containment and cleaning up	
		Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections	
		For disposal see section 13.
7	HANDLING AND STORAGE	
7.1	Precautions for safe handling	
		Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
7.2	Conditions for safe storage, including any incompatibilities	
		Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
7.3	Specific end uses	
		no data available
8	EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1	Control parameters	
		Components with workplace control parameters
8.2	Exposure controls	
		Appropriate engineering controls
		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
		Personal protective equipment
		Eye/face protection





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	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
	Skin protection	
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.	
	Body Protection	
	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
	Respiratory protection	
	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
a)	Appearance	Form : Crystalline Colour :White
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting range/freezing range	172 - 175 °C - lit.
f)	Initial boiling point and boiling range	460.9 °C at 760 mmHg
g)	Flash point	232.5 °C
h)	Enthalpy of Vaporization	No data available
i)	Index of Refraction	No data available
j)	Molar Refractivity	No data available
k)	Vapour pressure	1.13E-08 mmHg at 25 °C
l)	Density	1.281 g/ml
m)	Oxidizing properties	No data available
n)	Water solubility	180 g/L (20 °C)
o)	Partition coefficient: octanol/water	No data available
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	No data available
s)	Surface Tension	57.8 dyne/cm
9.2	Other safety information	
	IUPAC Name	Propanediamide
	Molecular Formula	C3H6N2O2
	Molecular Weight	102.09 g/mol
	SMILES	C(C(=O)N)C(=O)N
	InChI	InChI=1S/C3H6N2O2/c4-2(6)1-3(5)7/h1H2,(H2,4,6)(H2,5,7)
	EINECS	203-553-8

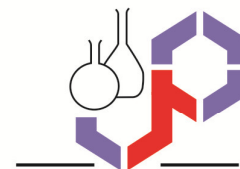




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10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available
10.2	Chemical stability	no data available
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	no data available
10.5	Incompatible materials	Strong oxidizing agents, acids, Bases, Strong reducing agents
10.6	Hazardous decomposition products	Other decomposition products - no data available
11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity	LD50 Oral - mouse - 6.000 mg/kg
	Skin corrosion/irritation	no data available
	Serious eye damage/eye irritation	no data available
	Respiratory or skin sensitization	no data available
	Germ cell mutagenicity	no data available
	Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity	no data available
	Specific target organ toxicity - single exposure	no data available
	Specific target organ toxicity - repeated exposure	no data available
	Aspiration hazard	no data available
	Potential health effects	
	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
	Ingestion	May be harmful if swallowed.
	Skin	May be harmful if absorbed through skin. May cause skin irritation.
	Eyes	May cause eye irritation.
	Signs and Symptoms of Exposure	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	Additional Information	
	RTECS	ON9125000
12	ECOLOGICAL INFORMATION	
12.1	Toxicity	no data available
12.2	Persistence and degradability	no data available
12.3	Bioaccumulative potential	no data available
12.4	Mobility in soil	no data available
12.5	Results of PBT and vPvB assessment	no data available
12.6	Other adverse effects	no data available
13	DISPOSAL CONSIDERATIONS	





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13.1	Waste treatment methods		
	Product		
	Offer surplus and non-recyclable solutions to a licensed disposal company.		
	Contaminated packaging		
	Dispose of as unused product.		
14	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID	IMDG	IATA
	-	-	-
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
	-	-	-
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	-	-	-
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6	Special precautions for user		
	no data available		
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	no data available		
15.2	Chemical Safety Assessment		
	no data available		
16	OTHER INFORMATION		
	Further information		
	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- November 2013 Month of revision :- November 2016</p>		

