

MATERIAL SAFETY DATA SHEET

Version 1.0, Feb 2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product identifiers

Product Name:	LY 294002
Catalog Number:	SM24
CAS Number:	154447-36-6
IUPAC Name:	2-(4-Morpholino)-8-phenyl-4H-1-benzopyran-4-one

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:	Cell Guidance Systems	
	Moneta Building, Ba	braham Research Campus,
	Cambridge CB22 3A	AT, UK
	Web:	www.cellgs.com
	Email	tech@cellgs.com
	Telephone:	+ 44 (0)1223 850186
1.4 Emergency Telephone	Emergency Tel:	+ 44 (0) 1223 850186 (09.00 - 17.00 GMT)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product Name:	LY 294002
Formula:	C19H17NO3
Molecular Weight:	307.34
CAS Number:	154447-36-6

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice.	Consult a doctor and show this safety data sheet.
lf inhaled.	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
In case of skin contact.	Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
In case of eye contact.	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
If swallowed.	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

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 immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture	In combustion, may emit toxic fumes.
5.3 Precautions for fire-fighters	Wear suitable protective clothing to prevent contact with skin and eyes and self- contained breathing apparatus.

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20 °C

7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls	Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.
Personal protective equipment	
Eye/face protection	Use appropriate safety glasses.
Skin protection	Use appropriate chemical resistant gloves (minimum requirement use standard BS EN
	374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly
	after handling.
Body protection	Wear appropriate protective clothing.
Respiratory protection	If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	off-white to cream crystalline powder
Vapor pressure	No data available
Odor	No data available
Vapor density	No data available
Odor threshold	No data available
Relative density	No data available
pH	No data available
Solubility(ies)	Soluble in DMSO and in ethanol
Melting / freezing point	Melting point/Melting range: 180-187 °C
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	No data available
Flash point	No data available
Decomposition temperature	No data available

Evaporation rate Viscosity Flammability (solid, gas) Explosive properties Upper / lower flammability or explosive limits Oxidising properties 9.2 Other safety information	No data available No data available No data available No data available No data available No data available	
No data available 10. STABILITY AND REACTIVITY		
10.1 Reactivity	Stable under recommended transport or storage conditions.	
10.2 Chemical stability	Stable under recommended storage conditions.	
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.	
10.4 Conditions to avoid	Heat, moisture.	
10.5 Incompatible materials	Strong acids/alkalis, strong oxidising/reducing agents.	
10.6 Hazardous decomposition products	In combustion may emit toxic fumes. No known decomposition information.	
11. TOXICOLOGICAL INFORMATION		
11.1 Information on toxicological effects		
Acute Toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Symptoms / Routes of exposure Inhalation: Ingestion: Skin: Eyes: Delayed / Immediate Effects: Additional Information Exposure may cause irritation to eyes, mucous me To the best of our knowledge, the chemical, physic	No data available Classification criteria are not met based on available data Classification criteria are not met based on available data There may be irritation at the site of contact. There may be irritation and redness. No known symptoms. RTECS No: DJ3100626 embranes, upper respiratory tract and skin cal and toxicological properties have not been fully investigated.	
12. ECOLOGICAL INFORMATION		

12.1 ToxicityNo data available12.2 Persistence and degradabilityNo data available

12.3 Bioaccumlative 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	May be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 \	Vaste treatment methods
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Product	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.
Contaminated packaging	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

14.1	UN-Number	Does not meet the criteria for classification as hazardous for transport.
14.2	UN proper shipping name	Does not meet the criteria for classification as hazardous for transport.
14.3	Transport hazard class(es)	Does not meet the criteria for classification as hazardous for transport.
14.4	Packaging group	Does not meet the criteria for classification as hazardous for transport.
14.5	Environmental hazards	This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a
		marine pollutant according to the IMDG Code.
14.6	Special precautions for users	No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1Safety, health and environmental regulations/legislation specific for the substance or mixtureNo day15.2Chemical safety assessmentA Ch

No data available A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Copyright 2013 Cell Guidance Systems. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet