

Safety Data Sheet 26261X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/27/2018 Version: 1.0

1.1. Identification Product form : Substance Substance name : 1.8-Naphthalic anhydride CAS No : 81-84-5 Product code : 2626-1-X0 Formula : C12H6O3 Synoryms : Naphtho[1,8,8a-c,d]pyran-1,3-dione; 1H,3H-Benzo[de]isochromene-1,3-dione Other means of identified uses of the substance or mixture and uses advised against Use of the substance/mixture Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet Synoquest Laboratories, Inc: P.O. Box 300 P.O. Box 300 Narway, FL 32615 - United States of America T (368) 462-7087 Intel States of America T (368) 462-7087 1.4. Emergency tolephone number Emergency tolephone number Energency number : (844) 523-4086 (3E Company - Account 10069) Storation (GHS-US) Identification Stype States data sheet 2.1. Classification of the substance or mixture States data sheet in the state is a sheet in the s	Dai	VEISUE. 04/21/2010 VEISUE. 1.0	
Product form : Substance name : 1, 8-Naphtalic anhydride Substance name : 1, 8-Naphtalic anhydride CAS No : 2148-05 Product code : 228:61-X0 Formula : C1218-03 Synonyms : Naphtho[18,88-c,d]pyran-1,3-dione; 1H,3H-Benzqldejisochromene-1,3-dione CMer means of identification : MFCD00008225 12. Relevant identification : MFCD00008225 Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the substance or mixture and uses advised against Use of the substance/mixture : (844) \$23:4006 (3E Company - Account 10069) SECTION 22 Hazard(s) identification 1.4. Emergency telephone number 2.1. Classification (OHS-US) Shin Int 2, H H35 - Causes skin initation Eve lint 2, A H315 - Causes skin initation Eve lint 2, A H315 - Causes skin initation Full text of H-phrases: see section 16 2.2. Labol elements GHS-US Isolabeling Hazard pictograms (OHS-US) Signal word (OHS-US) Full text of H-phrases: see section 16 2.2. Labol elements GHS-US Isolabeling Precautionary statements (OHS-US) Fill Part - Causes skin initation H335 - May cause respiratory initiation H335 - May cause respiratory initiation H335 - May cause respiratory initiation H335 - May cause respiratory initiation H336 - May cause respiratory initiation H337 - May cause respiratory initiation H338 - May cause respiratory initiation H339 - H349 - Causes skin initiation H339 - May cause respiratory initiation H339 - May cause	SECTION 1: Identification		
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Synonyms : Naphtho[1.8,8a-c,d]pyran-1,3-dione; 1H,3H-Benzo[de]isochromene-1,3-dione Cher means of identification : MECDAD0006925 I.2. Relevant identified uses of the substance or mixtures and identification is substance. Manufacture of substances Scientific research and development I.3. Details of the supplier of the safety data sheet SynOutest Laboratories, Inc. P.O. Box 300 Auchus, FL 32615 - United States of America T (386) 462-7087 - F (386) 462-7087 Info@synOutest Laboratories, Inc. P.O. Box 300 Auchus, FL 32615 - United States of America T (386) 462-7087 - F (386) 462-7087 Info@synOutest Laboratories, Inc. P.O. Box 300 Auchus, FL 32615 - United States of America T (386) 462-7087 - F (386) 462-7087 Info@synOutest Laboratories, Inc. P.O. Box 300 Auchus, FL 32615 - United States of America T (386) 462-7087 - F (386) 462-7087 Info@synOutest Laboratories, Inc. P.O. Box 300 Auchus, FL 32615 - United States of America T (386) 462-7087 - F (386) 462-7087 Info@synOutest Laboratories, Inc. P.O. Baxed States of Merica StepTicol 14 Hazard(5) Identification StepTicol 14 Hazard(5) Identification StepTicol 14 Hazard(5) Identification StepTicol 24 Hazard(5) Identification Step Int 2. A H315 - Causes serious eye initiation FUI lext of H-phrases: see section 16 Step Int State H319 - Causes serious eye initiation H319 - Causes serious eye in	Product code	: 2626-1-X0	
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12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynCuest Laboratories, Inc. P.O. Box 309 Machua, FL 32815 - United States of America T (386) 462-0788 - F (386) 462-7087 infold synchronous theory integrations and the substance or mixture Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification (GHS-US) Sin Int. 2. H315 - Causes schon intration Fyrint 2. H319 - Causes schon intration STOT SE3 H335 - May cause respiratory initiation STOT SE3 H335 - May cause respiratory initiation STOT SE3 H335 - May cause respiratory initiation STOT SE3 H336 - May cause respiratory initiation STOT SE3 H336 - May cause respiratory initiation Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : Warning Hazard pictograms (GHS-US) : P281 - Avoid breathing dust, mist, spray P264 - Wash skin introughly after handing P270 - Weard skin introughly after handing P270 - Weard skin introloging and water P270 - Weard skin introloging and water P270 - Weard skin intration H334 - P322 - E1 in skin. Wash with pienty of scap and water P270 - Weard skin introloging and water P270 - Wea	Synonyms	: Naphtho[1,8,8a-c,d]pyran-1,3-dione; 1H,3H-Benzo[de]isoc	hromene-1,3-dione
Use of the substance/mixture : Laboratory chemicals Monufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuest Laboratories, Inc. P.O. Box 300 Alachua, FL 32615 - United States of America T (386) 462-0708 - F (386) 462-0708 T (386) 462-0708 - F (386) 462-0708 Info@ synauestlabs.com - www.synuestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Inft. 2 H315 - Causes skin initiation Eye Init. 2 H315 - Causes serious eye irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US I abeling Hazard pictograms (GHS-US) Signal word (GHS-US) Freeautionary statements (GHS-US) Precautionary statements (GHS-US)	Other means of identification	: MFCD00006925	
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SynQuest Laboratories, Inc. P.O. Box 309 Alachua, F. 32615 - United States of America T (386) 462-7087 - F (396) 462-7087 T (386) 462-7088 - F (396) 462-7087 Stining Synquesticulation of the substance or mixture Classification (GHS-US) Skin Inti. 2 H315 - Causes skin initiation Eye Inti. 2 H315 - Causes skin initiation Eye Inti. 2 H315 - Causes serious eye initiation STOT SE 3 H336 - May cause respiratory initiation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Hazard statements (GHS-US) Fignal word (GHS-US) Figna	Use of the substance/mixture	Manufacture of substances	
P.O. Box 309 Alachus, FL 32615 - United States of America T (386) 462-7088 - F (386) 462-7087 info@synquestilabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Irrit. 2: H315 - Causes skin irritation Eye Irrit. 2A Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) : Warning Hazard statements (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : Warning Hazard statements (GHS-US) : Warning Precautionary statements (GHS-US) : Warning Precautionary statements (GHS-US) : P261 - Avoid breathing dust, mist, spray P264 - Wash skin throughly difter thrandling P271 - Use only outdoors or in a well-ventilated area P280 - Wash skin throughly difter thrandling P231 - H233 - H1 moy envirous colors on to resh air and keep comfortable for breathing P304 - P334 - P1 on skin: Wash with plenty of soage and water P	1.3. Details of the supplier of the sa	ety data sheet	
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Hazard pictograms (GHS-US) : GHS07 Signal word (GHS-US) : Hazard statements (GHS-US) : Hazard statements (GHS-US) : Hazard statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) : P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P32+P313 - If skin irritation occurs: Get medical advice/attention P332+P313 - If skin irritation occurs: Get medical advice/attention P342+P33 - Store in a well-ventilated place. Keep container tightly closed			
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P501 - Dispose of contents/container to an approved waste disposal plant		POUL - Dispose of contents/container to an approved wast	e uisposai piant

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
lot applicable				
ECTION 3: Composition/information	on on in	gredients		
.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
1,8-Naphthalic anhydride (Main constituent)		(CAS No) 81-84-5	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16		· · · · · ·		<u>.</u>
2. Mixture				
ot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		se of accident or if you feel unwell, seek re possible). Move the affected personnel		
irst-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		g. If not breathing, give artificial
irst-aid measures after skin contact	: Wasl	n with plenty of soap and water. Get medi	cal advice/atten	ition.
irst-aid measures after eye contact		ove contact lenses, if present and easy to ughly with water for at least 15 minutes.		
First-aid measures after ingestion : Due to its physical form, exposure to this chemical is not likely. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				
4.2. Most important symptoms and effects, both acute and delayed				
ymptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation : May cause drowsiness or dizziness.				
ymptoms/injuries after skin contact		act with the liquid the may cause cold bur		
ymptoms/injuries after eye contact		t contact with the liquefied gas may caus stbite from rapid liquid evaporation.	e severe and po	ossibly permanent eye injury due
.3. Indication of any immediate medic	al attentic	n and special treatment needed		
o additional information available				
ECTION 5: Firefighting measures				
1. Extinguishing media				
uitable extinguishing media		nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the substance or mixture				
ire hazard	: Ther	mal decomposition generates: Carbon ox	ides.	
.3. Advice for firefighters				
irefighting instructions	: In ca	se of fire: Evacuate area.		
rotection during firefighting		r gas tight chemically protective clothing i ratus. For further information refer to sect		
ECTION 6: Accidental release mea	isu <u>res</u>			
.1. Personal precautions, protective e		and emergency procedures		
General measures		uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
.1.1. For non-emergency personnel				
1.1. For non-emergency personnel mergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	upment may intervene.

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6.1.2. For emergency	responders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental p	recautions
Avoid release to the enviro	nment. Notify authorities if product enters sewers or public waters.
6.3. Methods and ma	aterial for containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to ot	er sections
No additional information a	/ailable
No additional information a SECTION 7: Handlin 7.1. Precautions for	g and storage
SECTION 7: Handlin	g and storage safe handling
SECTION 7: Handlin 7.1. Precautions for	g and storage safe handling ng : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective
SECTION 7: Handlin 7.1. Precautions for Precautions for safe handlin Hygiene measures	g and storage safe handling ng : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
SECTION 7: Handlin 7.1. Precautions for Precautions for safe handlin Hygiene measures	g and storage safe handling ng : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
SECTION 7: Handlin 7.1. Precautions for Precautions for safe handlin Hygiene measures 7.2. Conditions for s	g and storage safe handling ng : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. afe storage, including any incompatibilities
SECTION 7: Handlin 7.1. Precautions for Precautions for safe handlin Hygiene measures 7.2. Conditions for s Technical measures	g and storage safe handling ng : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. afe storage, including any incompatibilities : Comply with applicable regulations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 273 - 276 °C
Freezing point	: No data available
Boiling point	: 422 °C
Flash point	: 272 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

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Info

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 198.1742 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
No add	itional information available				
10.2.	Chemical stability				
The pro	oduct is stable at normal handling and storage conditions.				
10.3.	Possibility of hazardous reactions				
No add	No additional information available				
10.4.	Conditions to avoid				
Keep a	way from heat, sparks and flame.				
10.5.	Incompatible materials				
Strong acids. Strong bases. Strong oxidizing agents.					
10.6.	Hazardous decomposition products				

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Not classified. Dermal: Not classified.

1,8-Naphthalic anhydride (81-84-5)	
LD50 oral rat	12340 mg/kg
LD50 dermal rabbit	> 2025 mg/kg
ATE US (oral)	12340.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Contact with the liquid the may cause cold burns/frostbite.
Symptoms/injuries after eye contact	: Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

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SECTION 12: Ecological information				
12.1.	Toxicity			
No additional information available				
12.2.	Persistence and degradability			
No addi	tional information available			
12.3.	Bioaccumulative potential			
No addi	tional information available			
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Other adverse effects			
No addi	tional information available			

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.			
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Additional information	: Recycle the material as far as possible.			

Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: F	Regulator	v information

15.1. US Federal regulations

1,8-Naphthalic anhydride (81-84-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

1,8-Naphthalic anhydride (81-84-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

1,8-Naphthalic anhydride (81-84-5)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.