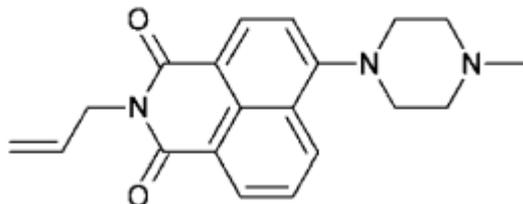


1. Identification

Product Name: 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6-(4-methyl-1-piperazinyl)-2-(2-propen-1-yl)



CAS No 709035-91-6

Synonyms *N*-Allyl-4-(*N*-methylpiperazinyl)-1,8-naphthalimide

Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet

Use of product: Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

- Company: JOANNEUM RESEARCH Forschungsgesellschaft mbH
- Address: Leonhardstrasse 59, A-8010 Graz, Austria
- Phone: +43 316 876-0
- E-Mail: info@joanneum.at

Emergency number: Poison Control Center, emergency number 0–24 Uhr: +43 1 406 43 43,
<https://goeg.at/Vergiftungsinformation>, Stubenring 6, 1010 Wien, kontakt@goeg.at

2. Hazard(s) identification

Section 2: Possible Hazards

Classification of the substance or mixture: According to Regulation (EC) No. 1272/2008 (CLP): This substance does not meet the criteria for classification under Regulation (EC) No. 1272/2008.

Label elements:

Labeling according to Regulation (EC) No. 1272/2008 (CLP): Not required.

3. Composition/Information on Ingredients

Substance name: *N*-Allyl-4-(*N*-methylpiperazinyl)-1,8-naphthalimide, aka 2-(2-allyl)-6-(4-methylpiperazin-1-yl)-1Hbenzo[de]isoquinoline-1,3(2 H)-dione

Formula: C₂₀H₂₁N₃O₂
Molecular weight: 335.40 g/mol
CAS Number: 709035-91-6

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.
Inhalation	Remove from exposure, lie down. Remove to fresh air.
Ingestion	Clean mouth with water. Get medical attention.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapours. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Handling: Avoid contact with skin and eyes. Do not breathe dust

Storage: Keep in a dry, cool and well-ventilated place. Keep container tightly closed.
Incompatible Materials. Strong oxidizing agents

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure. Limits established by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Powder Solid

Appearance Yellow

Odor No information available

Odor Threshold	No information available
pH	No information available
Melting Point/Range	148 °C / 298 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid, gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C ₂₀ H ₂₁ N ₃ O ₂
Molecular Weight	335.40 g/mol

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions
Conditions to Avoid	Incompatible products
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur in absence of polymerisation inhibitors
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	No information available
Toxicologically Synergistic Products	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
Sensitization	No information available
Carcinogenicity	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
STOT - single exposure	None known
STOT - repeated exposure	None known
Aspiration hazard	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated

12. Ecological information

Ecotoxicity	Do not empty into drains
Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available
Mobility	No information available

13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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14. Transport information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

- **EU-Vorschriften:** Gemäß REACH, Artikel 14 (1) wird für diesen Stoff oder Bestandteile dieser Mischung eine Stoffsicherheitsbeurteilung durchgeführt, wenn der Stoff in Mengen von 10 Tonnen oder mehr pro Jahr und Registrant registriert wird.
- **Nationale Vorschriften:** nicht bekannt

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export Not applicable

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
Not applicable

SHIT

16. Other information

Prepared by Joanneum Research - Materials

Email: materials-weiz@joannezum.at

<https://www.joanneum.at/materials/en/>

Print Date 10-April-2025

Revision Summary: first version