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1 Identification

- · Product identifier
- · Trade name: <u>Naphthalene, Laboratory Grade Flake</u>
- · Article number: N2101
- · CAS Number:
- 91-20-3 • **EC number:**
- 202-049-5
- Index number: 601-052-00-2
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA
 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture GHS02 Flame Flammable Solids 1 H228 Flammable solid. GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. · Label elements • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger (Contd. on page 2)

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	(Contd. of page 1
Hazard statements	
Flammable solid.	
Harmful if swallowed.	
Suspected of causing cancer.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
Rinse mouth.	
IF exposed or concerned: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ns.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 2	
2 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 2 $Fire = 2$	
REACTIVITY 0 Reactivity = 0	
REACTIVITY OF REACTIVITY OF	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- CAS: 91-20-3 Naphthalene
- Identification number(s)
- EC number: 202-049-5
- Index number: 601-052-00-2

4 First-aid measures

- · Description of first aid measures
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

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Trade name: Naphthalene, Laboratory Grade Flake

- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- **PAC-1:** 15 ppm
- **PAC-2:** 83 ppm
- · PAC-3: 500 ppm

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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CAS:	: 91-20-3 Naphthalene
PEL	Long-term value: 50 mg/m ³ , 10 ppm
REL	Short-term value: 75 mg/m ³ , 15 ppm
	Long-term value: 50 mg/m ³ , 10 ppm
TLV	Long-term value: 10 ppm
	Skin; BEI, A3
Ingre	edients with biological limit values:
CAS:	: 91-20-3 Naphthalene
BEI	-
	LD50 Intraperitoneal: -
	Time: end of shift
	LD50: 1-Naphthol with hydrolysis + 2-Naphthol with hydrolysis (Nq,Ns) tional information: The lists that were valid during the creation were used as basis.
Perso Gene Keep Wash	osure controls conal protective equipment: cral protective and hygienic measures: c away from foodstuffs, beverages and feed. c hands before breaks and at the end of work.
Perso Gene Keep Wash Brea Prote The g Due Chem Selec Mate The s varie Pene The o	estive controls protective equipment: pral protective and hygienic measures: a way from foodstuffs, beverages and feed. a hands before breaks and at the end of work. thing equipment: Not required. ection of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ t trical mixture. etion of the glove material on consideration of the penetration times, rates of diffusion and the degradation trial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and s from manufacturer to manufacturer. tration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be
Perso Gene Keep Wash Brea Prote The s Due Chem Selec Mate The s varie Pene The c obser	estive controls protective equipment: pral protective and hygienic measures: a way from foodstuffs, beverages and feed. a hands before breaks and at the end of work. thing equipment: Not required. ection of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ to the glove material on consideration of the penetration times, rates of diffusion and the degradation trial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality a s from manufacturer to manufacturer. tration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to

 Information on basic physical and General Information 	chemical properties	
• Appearance:		
Form:	Flakes	
Color:	White	
Odor:	Moth ball odor	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	80 °C (176 °F)	
Boiling point/Boiling range:	218 °C (424.4 °F)	
		(Contd. on page

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		(Contd. of page
Flash point:	80 °C (176 °F)	
Flammability (solid, gaseous):	Product is not flammable.	
Auto igniting:	540 °C (1,004 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	0.9 Vol %	
Upper:	5.9 Vol %	
Vapor pressure at 20 °C (68 °F):	0.04 hPa (0 mm Hg)	
Density at 20 °C (68 °F):	1.14 g/cm ³ (9.5133 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	0.03 g/l	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 500 mg/kg (ATE)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 2B
- \cdot NTP (National Toxicology Program) R
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1334
UN proper shipping name	
DOT	Naphthalene, crude
IMDG	NAPHTHALENE, CRUDE, MARINE POLLUTANT
IATA	NAPHTHALENE, CRUDE

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	(Contd. of page
Transport hazard class(es)	
DOT	
V	
Class	4.1 Flammable solids, self-reactive substances and soli desensitised explosives
Label	4.1
IMDG	
Class	4.1 Flammable solids, self-reactive substances and sola
Causs	desensitised explosives
Label	4.1
IATA	
Class	4.1 Flammable solids, self-reactive substances and solution
	desensitised explosives
Label	4.1
Packing group DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant:	Environmentally hazardous substance, solid; Marine Pollutant No
marine politicani.	Symbol (fish and tree)
Special precautions for user	Warning: Flammable solids, self-reactive substances and sol
	desensitised explosives
Hazard identification number (Kemler cod	le): 40 F-A,S-G
EMS Number: Stowage Category	Г-А, S-G А
Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 ar
-	7.7.3.9.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 25 kg
Hazardous substance:	On cargo aircraft only: 100 kg 100 lbs, 45.4 kg
	100,000, 101,115

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· IMDG		
· Limited quantities (LQ)	5 kg	
· Excepted quantities (EQ)	Code: El	
	Maximum net quantity per inner packaging: 30 g	
	Maximum net quantity per outer packaging: 1000 g	
· UN "Model Regulation":	UN 1334 NAPHTHALENE, CRUDE, 4.1, III	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) C, CBD
- · TLV (Threshold Limit Value) A4
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Danger

• Hazard statements Flammable solid. Harmful if swallowed. Suspected of causing cancer.

· Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish.

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Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Department issuing SDS:** Environment protection department.

· Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/22/2024: Reviewed SDS for accuracy. MH/STN 05/22/2024 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Solids 1: Flammable solids – Category 1 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Carcinogenicity 2: Carcinogenicity - Category 2 \cdot * Data compared to the previous version altered.

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