

Safety Data Sheet
according to 1907/2006/EC, Article 31

printing date 08.03.2024

version number 22.0

revision: 08.03.2024

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking**

- **1.1 Product identifier**
- **Trade name: AFLAMMIT ASN**

- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Application of the substance/the mixture:**
Flame retarding agent for industrial and/or commercial use.

- **1.3 Details of the supplier of the safety data sheet:**
- **Address and telephone number of the supplier:**
Thor Specialties (UK) LTD.
Wincham Avenue
Wincham Northwich
Cheshire CW9 6GB
United Kingdom
Phone: (UK) +44 (0) 1606 818800
Fax: (UK) +44 (0) 1606 818801
- **Competent person responsible for the Material Safety Data Sheet:**
Regulatory Department: sds@thoruk.com

- **1.4 Emergency telephone number:**
National Poisons Information Service (24 h service):
Phone: +44 (0) 844-892-0111 (UK only)
Emergency phone number (24 h service):
Phone: +49 621 60-43333
Fax: +49 621 60-92664

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **In accordance with Regulation (EC) No 1272/2008**
This mixture does not meet the criteria for the classification according to the Regulation (EC) no. 1272/2008 (GB CLP).

- **2.2 Label elements**
- **In accordance with Regulation (EC) No 1272/2008. None**
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **Supplemental information in terms of art. 25 CLP-Regulation (EC) Nr. 1272/2008: none**

- **2.3 Other hazards**
- **PBT-properties:** none
- **vPvB-properties:** none
- **Determination of endocrine-disrupting properties:** none

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Dangerous components:** None

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **Note:** Personal protection for the First Aider.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Wash immediately with plenty of water and soap and rinse thoroughly.
- **After eye contact:**
Rinse eyes thoroughly with plenty of water for at least 10 minutes while holding eyelids open. If symptoms persist, consult a physician.
- **After swallowing:** Rinse mouth and drink plenty of water.

· 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are described in section 2 and 11.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Product is non combustible. Use fire fighting measures that suit the environment.

· Unsuitable extinguishing agents for reasons of safety: None

· 5.2 Special hazards arising from the substance or mixture

In case of fire, toxic incineration products may be released such as:

Nitrogen oxides (NO_x)

Phosphoric oxides (P_xO_y)

Ammonia (NH₃)

· 5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to enter waters without treatment in a (biological) water treatment plant.

· 6.3 Methods and material for containment and cleaning up:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Suitable binder: multi-purpose absorbent.

Smaller amounts of contaminated binding material can be disposed as non-hazardous industrial waste.

· 6.4 Reference to other sections None

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Provide good room ventilation or local exhaust ventilation at the workplace.
Assess hazards arising from work equipment and work places.
- **Information about protection against explosion and fire:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and containers:**
Should be stored in the delivery-container preferably.
- **Information about storage in a common storage facility:** None
- **Further information about storage conditions:** Store container in a well ventilated position.
- **Sensitivity against UV-radiation and heat:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** None established.
- **Ingredients with biological limit values:**

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

7664-41-7 ammonia

WEL (Great Britain)	Short-term value: 25 mg/m ³ , 35 ppm Long-term value: 18 mg/m ³ , 25 ppm
IOELV (European Union)	Short-term value: 36 mg/m ³ , 50 ppm Long-term value: 14 mg/m ³ , 20 ppm

- **Additional information:** Information valid at the time of review of safety data sheet.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Avoid contact with the eyes and the skin.
Wash hands during work breaks and at the end of the shift.
Use skin cream for skin protection.
Provide skin protection plan.
- **Respiratory protection:**
Use respiratory equipment if a significant exposure at the workplace is expected.
- **Hand protection**



Chemical protective gloves (EN ISO 374-1:2016)

Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Do not wear protective gloves longer than necessary.

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material:**
Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6
- **Gloves made of the following materials are not suitable:** Leather gloves

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· **Eye/face protection**

Safety glasses (EN 166)

· **Body protection:**

Protective clothing (EN 14605:2009-08)

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**

- **Physical state:** Liquid
- **Colour:** colourless
clear
- **Odour:** characteristic
- **Melting point/freezing point:** There is no information available on this property.
- **Boiling point or initial boiling point and boiling range** 100 °C (7732-18-5 water)
- **Flammability** Product is not inflammable.
- **Lower and upper explosion limit** Explosion limits are only given for flammable liquids.
- **Flash point:** The mixture has no flashpoint.
- **Ignition temperature:** Not applicable, as aqueous mixture
- **Decomposition temperature:** This property does not apply to the present mixture.
- **pH at 20 °C** 6-8
neutral
- **Viscosity:**
- **kinematic (√):** Not determined, as not relevant to safety
- **Solubility**
- **Water:** Fully miscible
- **Partition coefficient n-octanol/water (log value)** Not determined, as not relevant to safety.
- **Vapour pressure at 20 °C:** 23 hPa (7732-18-5 water)
- **Density and/or relative density**
- **Density at 20 °C:** 1.23 ± 0.01 g/cm³
- **Relative gas density** Not applicable, as aqueous mixture
- **Particle characteristics** Not applicable as the product is liquid.
- **9.2 Other information**
- **Explosive properties:** none
- **Oxidising properties** None

SECTION 10: Stability and reactivity· **10.1 Reactivity**

The evaluation of the relevant available information does not show an indication of any metal corrosive property.

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- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Minimum shelf life:** 12 months from production date.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
None, if storage and handling is done according to specification.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **Acute toxicity estimates (ATE) or LD₅₀/LC₅₀ values:**

oral	ATE	> 5,000 mg/kg (calculated)
dermal	ATE	> 5,000 mg/kg (calculated)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
Data on endocrine disrupting properties for human health are not available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
- **Evaluation:**
Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.
Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled.
- **Effect on activated sludge organisms:**
- **Evaluation:**
If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.
- **12.2 Persistence and degradability**
- **Method:**
- **Rapid degradability of organic substances:**
- **Evaluation:** The mixture contains inorganic substances.

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- **Behaviour in sewage treatment plants:**
- **Evaluation:** > 70 %. The product ingredients can be readily eliminated in the sewage system.
- **Components:** May lead to excess fertilising in water courses.
- **12.3 Bioaccumulative potential**
- **Evaluation:** Not worth-mentioning accumulating in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **Persistent, bioaccumulative and toxic substances (PBT):** none
- **Very persistent and very bioaccumulative substances (vPvB):** none
- **12.6 Endocrine disrupting properties**
Data on endocrine disrupting properties on the environment are not available.
- **12.7 Other adverse effects** none
- **Chemical Oxygen Demand (COD-value):** 40.3 mg O₂/g
- **Biological oxygen demand (BOD₅-value):** 27.5 mg/g
- **Nitrogen content (N_{tot}):** 6.8 %, established as N
- **Phosphorous content (P_{tot}):** 4.7 %, established as P
- **Metals and their compounds (Directive 2006/11/EC):** None
- **European Water Framework Directive (2000/60/EC):**
The product does not contain any priority substances according WFD that require a water monitoring.
- **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14):**
The product does not contain substances, which can influence the AOX of waste water.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Dispose of "non-hazardous waste" in an environmentally friendly manner.
- **Contaminated packaging:**
- **Recommendation:**
Packaging can be reused or recycled after cleaning.
Cleaning liquid can be fed to a biological wastewater treatment plant.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** None
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** None
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- **Class** None
- **14.4 Packing group**
- **ADR, IMDG, IATA** None
- **14.5 Environmental hazards:**
- **Marine pollutant:** No

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- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** No dangerous goods.
- **UN "Model Regulation":** None

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product feature nor does it establish a legally valid contractual relationship.

- **Methods of evaluating information used for the purpose of classification:**

The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.

- **Date of previous version:** 13.09.2021

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ATE: Acute Toxicity Estimate

EN ISO: iso norm adopted as a European standard

DIN EN: European norm adopted as a German standard

OECD: Organisation for Economic Co-operation and Development

ECxx: Effect concentration, xx percent

NOEC: No Observed Effect Concentration

UN: United Nations

EINECS: European Inventory of Existing Commercial Chemical Substances

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

GB CLP: Classification, Labelling and Packaging

UK REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

- **Key literature references and sources for data:** None

- *** Data altered since the previous version.**