

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

Revision: 12.08.2010

Printing date 12.08.2010

**1 Identification of substance****Product details**

Trade name

**2,4,5,6-Tetrafluoropyrimidine**

Stock number:

H32453

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG  
Benzstrasse 3  
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com  
www.alfa-chemcat.com

Informing department:

Product safety department.

Emergency information:

Giftnotruf Universität Mainz / Poison Information Center Mainz  
www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240**2 Hazards identification**

Hazard designation:



C Corrosive

Information pertaining to particular dangers  
for man and environment  
GHS label elements

R 34 Causes burns.

**Danger**

Prevention:

Response:

H314 - Causes severe skin burns and eye damage.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

**3 Composition/information on ingredients**

Chemical characterization:

Designation: (CAS#)

2,4,5,6-Tetrafluoropyrimidine (CAS# 767-79-3)

**4 First aid measures**

General information

After inhalation

After skin contact

After eye contact

After swallowing

Instantly remove any clothing soiled by the product.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor.

Seek immediate medical advice.

**5 Fire fighting measures**Suitable extinguishing agents  
Special hazards caused by the material, its  
products of combustion or flue gases:CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment:

Can be released in case of fire:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen fluoride (HF)  
Possibly Hydrogen cyanide (HCN)

Wear self-contained breathing apparatus.

Wear full protective suit.

**6 Accidental release measures**

Person-related safety precautions:

Measures for environmental protection:

Measures for cleaning/collecting:

Additional information:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not allow material to be released to the environment without proper governmental permits.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**7 Handling and storage**

Handling

Information for safe handling:

Information about protection against  
explosions and fires:

Storage

Requirements to be met by storerooms and  
containers:Information about storage in one common  
storage facility:Further information about storage  
conditions:

Keep containers tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

Keep ignition sources away - Do not smoke.

No special requirements.

Store away from oxidizing agents.

Store away from strong bases.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

**8 Exposure controls and personal protection**Additional information about design of  
technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

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<b>Components with critical values that require monitoring at the workplace:</b>	Not required.
<b>Additional information:</b>	No data
<b>Personal protective equipment</b>	The usual precautionary measures should be adhered to in handling the chemicals.
<b>General protective and hygienic measures</b>	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Use breathing protection with high concentrations.
<b>Breathing equipment:</b>	Check protective gloves prior to each use for their proper condition.
<b>Protection of hands:</b>	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
<b>Material of gloves</b>	Impervious gloves
<b>Penetration time of glove material</b>	Not determined
<b>Eye protection:</b>	Safety glasses Tightly sealed safety glasses.
<b>Body protection:</b>	Face protection Full face protection Protective work clothing.

**9 Physical and chemical properties:****General Information**

<b>Form:</b>	Liquid
<b>Smell:</b>	Not determined
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	83°C
<b>Sublimation temperature / start:</b>	Not determined
<b>Ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Danger of explosion:</b>	Product is not explosive.
<b>Critical values for explosion:</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Steam pressure:</b>	Not determined
<b>Density</b>	Not determined

**10 Stability and reactivity**

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used and stored according to specifications.
<b>Materials to be avoided:</b>	Oxidizing agents Bases
<b>Dangerous reactions:</b>	No dangerous reactions known
<b>Dangerous products of decomposition:</b>	Carbon monoxide and carbon dioxide Nitrogen oxides (NO <sub>x</sub> ) Hydrogen fluoride Possibly Hydrogen cyanide (HCN)

**11 Toxicological information**

<b>Acute toxicity:</b>	
<b>Primary irritant effect:</b>	Corrosive effect on skin and mucous membranes.
<b>on the skin:</b>	Strong corrosive effect.
<b>on the eye:</b>	No sensitizing effect known.
<b>Sensitization:</b>	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
<b>Additional toxicological information:</b>	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**12 Ecological information:**

<b>Additional ecological information:</b>	
<b>General notes:</b>	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

**13 Disposal considerations**

<b>Product:</b>	
<b>Recommendation</b>	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
<b>Uncleaned packagings:</b>	
<b>Recommendation:</b>	Disposal must be made according to official regulations.

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**14 Transport information****Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class: 8 (C3) Corrosive substances.  
 Kemler Number: 80  
 UN-Number: 3265  
 Packaging group: II  
 Label: 8  
 Designation of goods: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,4,5,6-Tetrafluoropyrimidine)  
 Limited quantities (LQ) LQ22  
 Transport category 2  
 Tunnel restriction code E

**Maritime transport IMDG/GGVSea:**

IMDG/GGVSea Class: 8  
 UN Number: 3265  
 Label: 8  
 Packaging group: II  
 Marine pollutant: No  
 Segregation groups Acids  
 Correct technical name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,4,5,6-Tetrafluoropyrimidine)

**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: 8  
 UN/ID Number: 3265  
 Label: 8  
 Packaging group: II  
 Correct technical name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,4,5,6-Tetrafluoropyrimidine)

**UN "Model Regulation":**

UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

**15 Regulatory information****Designation according to EC guidelines:****Code letter and hazard designation of product:**

C Corrosive

**Risk phrases:**

34 Causes burns.

**Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**National regulations****Information about limitation of use:**

For use only by technically qualified individuals.  
 Employment restrictions concerning young persons must be observed.

**Water hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing data specification sheet:** Health, Safety and Environmental Department.**Contact:** Zachariah Holt**Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)