

# SAFETY DATA SHEET



Revision Date	28-Dec-2022***	product code	TP08
Version / Revision	8	Issuing date	02-Jan-2023
Supersedes Version	5.00***		

## Norbornene melt

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

#### 1.1. Product identifier

Identification of the substance/preparation

## Norbornene melt

Chemical Name	Bicyclo-[2.2.1] hept-2-ene
CAS-No	498-66-8
EC No.	207-866-0
Registration number (REACH)	01-2119635054-0000

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Transported isolated intermediate (1907/2006)
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#### 1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	TOPAS Advanced Polymers GmbH Am Prime Parc 9 65479 Raunheim Germany
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Product Information	email: info@topas.com Tel: +49 (0) 69 / 945158 000
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#### 1.4. Emergency telephone number

Emergency telephone number	+49 (0)69-305 6418 available 24/7
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Flammable liquid Category 2, H225  
Serious eye damage/eye irritation Category 2, H319  
Reproductive toxicity Category 2, H361  
Environmental hazard Aquatic Chronic 2; H411

#### 2.2. Label elements

Hazard pictograms	Flame Exclamation mark Environment Health Hazard
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### Signal word

### Warning

### Hazard statements

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H411: Toxic to aquatic life with long lasting effects.  
H361: Suspected of damaging fertility or the unborn child.

### Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240: Ground and bond container and receiving equipment.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.  
P391: Collect spillage.

## 2.3. Other hazards

Caution Hot!

### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

### Endocrine disrupting assessments

The substance is not listed on the candidate list according to Art. 59(1), REACh. The substance was not assessed as having endocrine disrupting properties according to regulation 2017/2100/EU or 2018/605/EU.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
Bicyclo [2.2.1]-hept-2-en	498-66-8	Flam. Sol. 2; H228 Eye Irrit. 2; H319	> 98

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		Repr. 2; H361 Aquatic Chronic 2; H411 ATE 9577 mg/kg (oral) ATE 4350 mg/kg (dermal) ATE 26,6 (inhalation)	
Toluene	108-88-3	Flam. Liq. 2; H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 3; H412 ATE 5580 mg/kg (oral) ATE 12267 mg/kg (dermal) ATE 28 (inhalation)	< 2%

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove/Take off immediately all contaminated clothing. Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

#### Inhalation

Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

#### Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

#### Ingestion

Do not induce vomiting without medical advice. Obtain medical attention.

#### Protection of First-aiders

First aider needs to protect himself. For further specification, refer to section 8 of the SDS.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Main symptoms

Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing, Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

### 4.3. Indication of any immediate medical attention and special treatment needed

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Treat symptomatically

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

##### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air and may spread along floors

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

#### 5.3. Advice for firefighters

##### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

##### Precautions for firefighting

Keep people away from and upwind of fire. Cool closed containers exposed to fire with water spray. Dike and collect water used to fight fire.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### Personal precautions

Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Avoid breathing vapors or mists.

Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak.

For emergency responders: Personal protection see section 8.

For emergency responders. Stay upwind/keep distance from source.

#### 6.2. Environmental precautions

Prevent further leakage or spillage. Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

##### Methods for containment

Stop the flow of material, if possible without risk.

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### Methods for cleaning up

DO NOT use combustible materials such as sawdust. Soak up with inert absorbent material. Allow to solidify, use mechanical handling equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

### 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system.

#### Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

Incompatible products:  
strong oxidizing agents  
acids and bases  
radical initiators

### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air. In case of fire, emergency cooling with water spray should be available.

#### Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Storage Class (TRGS510)

3: Flammable liquids

#### Temperature class

T2

### 7.3. Specific end use(s)

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Transported isolated intermediate (1907/2006)

### SECTION 8: Exposure controls / personal protection

#### 8.1. Control parameters

##### Exposure limits European Union

Directive 98/24/EC

Directive 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)	Skin Absorption
Toluene CAS: 108-88-3	192	50	384	100	Yes

#### Exposure limits UK

##### EH40 WELs

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)
Toluene CAS: 108-88-3	191	50	384	100

##### EH40 WELs and Appendix 5 Carcinogens

Component	Skin Absorption	Asphyxia	Respiratory irritant	included w/o limits	Carcinogen
Toluene CAS: 108-88-3	Yes				

#### DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.

#### 8.2. Exposure controls

##### Appropriate Engineering controls

Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Vapors may cause flash fire or explosion.

##### Personal protective equipment

##### General industrial hygiene practice

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Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

### Eye protection

Safety glasses with side-shields. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	Viton
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### Skin and body protection

Impervious clothing.

### Environmental exposure controls

Use product only in closed system. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	solid
<b>Colour</b>	colourless
<b>Odour</b>	pungent
<b>Odour threshold</b>	No data available
<b>Melting point/freezing point</b>	46 - 47 °C
<b>Boiling point or initial boiling point and boiling range</b>	95 - 96 °C @ 1013 hPa
<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	0,77 Vol %
<b>Upper explosion limit</b>	6,5 Vol %
<b>Flash point</b>	-8 °C
<b>Autoignition temperature</b>	450 °C
<b>Decomposition temperature</b>	No data available
<b>pH</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Water solubility</b>	0.13 g/l @20°C
<b>Partition coefficient n-octanol/water (log value)</b>	No data available

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Vapour pressure 301 hPa @ 59 °C  
Density and/or relative density 0.8706 g/cm<sup>3</sup> @20°C  
Relative vapour density No data available

### 9.2. Other information

Molecular weight 94.2

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under normal conditions of handling, use and transportation.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation may occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

### 10.4. Conditions to avoid

Avoid any source of ignition. Avoid contact with heat, sparks, open flame and static discharge.

### 10.5. Incompatible materials

oxidizing agents, radical initiators, strong acids, strong bases.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity				
Bicyclo [2.2.1]-hept-2-en (498-66-8)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	9577 mg/kg	rat	
Dermal	LD50	> 4350 ml/kg	rabbit	
Inhalative	LC50	> 26,6 mg/l (4h)	rat	



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<b>Toluene (108-88-3)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	5580 mg/kg		
Dermal	LD50	12267 mg/kg		
Inhalative	LC50	28 mg/l (4h)		

### **Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity  
Acute dermal toxicity  
Acute inhalation toxicity  
STOT SE

### **Toluene, CAS: 108-88-3**

#### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity  
Acute dermal toxicity  
Acute inhalation toxicity

<b>Irritation and corrosion</b>				
<b><u>Bicyclo [2.2.1]-hept-2-en (498-66-8)</u></b>				
Target Organ Effects	Species	Result	Method	
Eyes	rabbit	Low irritating potential severe irritation		
Skin	rabbit	No skin irritation		

### **Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### **Assessment**

The available data lead to the classification given in section 2

<b>Sensitization</b>				
<b><u>Bicyclo [2.2.1]-hept-2-en (498-66-8)</u></b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing	OECD 429	

### **Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

<b>Subacute, subchronic and prolonged toxicity</b>				
<b><u>Bicyclo [2.2.1]-hept-2-en (498-66-8)</u></b>				
Type	Dose	Species	Method	
28-day	NOAEL: 500 mg/kg/d	rat, male/female	OECD 422	
90-day	NOAEL: 2,02 mg/l	rat, male/female	OECD 413	

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### Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8

#### Assessment

Based on available data, the classification criteria are not met for:  
STOT RE

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>					
<b>Bicyclo [2.2.1]-hept-2-en (498-66-8)</b>					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 473 (Chromosomal Aberration)	In vitro study
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study
Reproductive toxicity	NOAEL 500 mg/kg/d	rat, parental	negative	OECD 422	
Reproductive toxicity	NOAEL 500 mg/kg/d	rat, 1. Generation, male/female	negative	OECD 422	
Mutagenicity	5000 µg/plate	Salmonella typhimurium	negative	OECD 471 (Ames)	
Reproductive toxicity	NOAEL 300 mg/kg/d	rat	positive	OECD 414, Oral	

### Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8

#### CMR Classification

not evaluated by:

NTP: (National Toxicity Program)

IARC: (International Agency for Research on Cancer)

OSHA: (Occupational Safety & Health Administration)

#### Evaluation

Suspected of damaging the unborn child

In the absence of specific alerts no cancer testing is required

### Toluene, CAS: 108-88-3

#### CMR Classification

Directive 1272/2008/EC, Annex VI: Repr. 2

## 11.2. Information on other hazards

### Bicyclo [2.2.1]-hept-2-en (498-66-8)

#### Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3

The substances contained in this mixture have not been identified as having endocrine disrupting properties in accordance with section 2.3

### Toluene (108-88-3)

#### Endocrine disrupting properties

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## Norbornene melt

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3  
The substances contained in this mixture have not been identified as having endocrine disrupting properties in accordance with section 2.3

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity			
Bicyclo [2.2.1]-hept-2-en (498-66-8)			
Species	Exposure time	Dose	Method
Danio rerio (Zebra fish)	96h	LC50: > 7,5 mg/l	OECD 203
Poecilia reticulata (guppy)	5 d	EC50: > 40 mg/l	
Daphnia magna (Water flea)	48h	EC50: 7,3 mg/l	OECD 202
Scenedesmus subspicatus	72h	EC50: 9,9 mg/l (Biomass)	OECD 201
Activated sludge (domestic)	3 h	EC50: > 1000 mg/l	OECD 209

### 12.2. Persistence and degradability

**Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### Biodegradation

no significant degradation.

### 12.3. Bioaccumulative potential

**Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### Bioaccumulative potential

log Pow: 4.1

### 12.4. Mobility in soil

**Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

No data available

### 12.5. Results of PBT and vPvB assessment

**Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

### 12.6. Endocrine disrupting properties

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The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3. The substance was not assessed as having endocrine disrupting properties according to regulation 2017/2100/EU or 2018/605/EU.

### 12.7. Other adverse effects

**Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

#### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### ADR/RID

14.1. UN number or ID number	UN 3176
14.2. UN proper shipping name	
Flammable solid, organic, molten, n.o.s. (Norbornene)	
14.3. Transport hazard class(es)	
Class	4.1
14.4. Packing group	II
14.5. Environmental hazards	Fish and tree
14.6. Special precautions for user	
ADR Tunnel restriction code	(E)
Classification Code	F2
Hazard Number	44

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** not applicable\*\*\*

## SECTION 15: Regulatory information

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Regulation 1272/2008, Annex VI

##### Toluene, CAS: 108-88-3

Classification Flam. Liq. 2; H225  
Repr. 2; H361d\*\*\*  
Asp. Tox. 1; H304  
STOT RE 2\*; H373\*\*  
Skin Irrit. 2; H315  
STOT SE 3; H336

Hazard statements H225, H361d\*\*\*, H304, H373\*\*, H315, H336

##### DI 2012/18/EU (Seveso III)

Category E2

Component	Status
Bicyclo [2.2.1]-hept-2-en CAS: 498-66-8	not subject
Toluene CAS: 108-88-3	regulated

#### National Regulatory Information

##### **German storage class**

Storage Class (TRGS510) 3: Flammable liquids

##### **Water hazard class according to AwSV**

KBwS Class 1  
KBwS Number 2026

##### **Maternity Protection Law**

The product falls into a hazard category which, in accordance with §11 of the Maternity Protection Act, suggests an uncontrollable hazard. A risk assessment taking into account §10 and §11 as well as the general provisions of the Maternity Protection Act must be observed. The employment restrictions for the protection of working mothers (MuschG) must be observed

##### **Youth Employment Protection Act**

The employment restrictions for the protection of young people at work (JArbSchG) must be observed

#### Other regulations

##### **Toluene, CAS: 108-88-3**

Reg 111/2005/EC  
DI 96/61/EC (water)

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Reg. 273/2004/EC, Annex I, Category 3  
DI 92/85/EEC

### International Inventories

#### **Bicyclo [2.2.1]-hept-2-en, CAS: 498-66-8**

AICS (AU)  
DSL (CA)  
NDSL (CA)  
EC-No. 2078660 (EU)  
ENCS (4)-1763 (JP)  
ISHL 7-(2)-108 (JP)  
KECI 2012-3-5388 (KR)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)

#### **Toluene, CAS: 108-88-3**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 203-625-9 (EU)  
ENCS (3)-2 (JP)  
ISHL (3)-2 (JP)  
ISHL 2-(8)-869 (JP)  
KECI 97-1-298 (KR)  
KECI KE-33936 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)

### **15.2. Chemical safety assessment**

The Chemical Safety Assessment (CSR) has been generated (intermediate use under strictly controlled conditions)

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3**

H228: Flammable solid.  
H319: Causes serious eye irritation.  
H411: Toxic to aquatic life with long lasting effects.  
H225: Highly flammable liquid and vapour.  
H361: Suspected of damaging fertility or the unborn child.  
H304: May be fatal if swallowed and enters airways.  
H373: May cause damage to organs through prolonged or repeated exposure if inhaled.  
H315: Causes skin irritation.  
H336: May cause drowsiness or dizziness.

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### Training advice

For effective first-aid, special training / education is needed.

### Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on TOPAS owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

### Further information for the safety data sheet

For more information, consult the Technical Data Sheet ([www.topas.com](http://www.topas.com)). Observe national and local legal requirements. Changes against the previous version are marked by \*\*\*.

### Disclaimer

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality

*End of Safety Data Sheet*