

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

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

#### 1.1 Product identifier

Trade name : ARADUR® 917 CH  
Unique Formula Identifier (UFI) : UR68-U0EX-A00N-FCTR

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

Use of the Substance/Mixture : Hardener  
  
Recommended restrictions on use : For industrial use only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40  
  
E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:  
ANGERS: 02 41 48 21 21  
BORDEAUX: 05 56 96 40 80  
LILLE: 0 825 812 822  
LYON: 04 72 11 69 11  
MARSEILLE 04 91 75 25 25  
NANCY: 03 83 32 36 36  
PARIS: 01 40 05 48 48  
RENNES: 02 99 59 22 22  
STRASBOURG: 03 88 37 37 37  
TOULOUSE: 05 61 77 74 47  
EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1/800/424.9300

**ARADUR® 917 CH**

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

**SECTION 2: Hazards identification**


**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Serious eye damage, Category 1	H318: Causes serious eye damage.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 Wear respiratory protection.  
**Response:**  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

tetrahydro-4-methylphthalicanhydride  
1,2,3,6-tetrahydro-3-methylphthalic anhydride  
1,2,3,6-tetrahydrophthalic anhydride  
hexahydro-4-methylphthalic anhydride

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
tetrahydro-4-methylphthalicanhydride	34090-76-1 251-823-9 607-240-00-0 01-2119513209-45	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 70 - < 90
1,2,3,6-tetrahydro-3-methylphthalic anhydride	5333-84-6 226-247-6 607-240-00-0 01-2119906338-37	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 30 - < 50
hexahydro-4-methylphthalic anhydride	19438-60-9 243-072-0 607-241-00-6 01-2119510879-29	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 10 - < 20
1,2,3,6-tetrahydrophthalic anhydride	85-43-8 201-605-4 607-099-00-5 01-2119486679-14	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 20

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Treat symptomatically.  
Get medical attention if symptoms occur.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.  
No action shall be taken involving any personal risk or without

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	09.12.2021	400001007937	11.07.2017
			Date of first issue: 26.05.2016

Print Date 01.07.2024

suitable training.

It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

- If inhaled : Call a physician or poison control centre immediately.  
If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

None known.

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

Treatment : Treat symptomatically.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

for firefighters : necessary.

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
Do not breathe vapours or spray mist.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Use only with adequate ventilation/personal protection.

Provide sufficient air exchange and/or exhaust in work rooms.

Keep container closed when not in use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Advice on common storage : Keep away from strong bases.

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : Stable under normal conditions.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : butyl-rubber  
Break through time : > 8 h

Material : Ethyl Vinyl Alcohol Laminate (EVAL)  
Break through time : > 8 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Material : Nitrile rubber  
Break through time : 10 - 480 min

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type : Combined particulates and organic vapour type (A-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : No data is available on the product itself.

Odour : slight

Odour Threshold : No data is available on the product itself.

pH : ca. 3 (20 °C)  
Concentration: 500 g/l

Melting point/freezing point : No data is available on the product itself.

Boiling point : > 200 °C

Flash point : 159 °C  
Method: Pensky-Martens closed cup

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : ca. 0,01 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

Relative density : 1,2 (25 °C)

Density : 1,2 g/cm<sup>3</sup> (25 °C)

Solubility(ies)

Water solubility : Decomposes in contact with water.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : 50 - 100 mPa.s (25 °C)

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide  
carbon monoxide



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

### SECTION 11: Toxicological information

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

##### Acute toxicity

##### Components:

##### **tetrahydro-4-methylphthalicanhydride:**

Acute oral toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402

##### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

Acute oral toxicity : (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402

##### **hexahydro-4-methylphthalic anhydride:**

Acute oral toxicity : LD50 Oral (Rat, female): > 2 000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### **1,2,3,6-tetrahydrophthalic anhydride:**

Acute oral toxicity : LD50 Oral (Rat, male and female): ca. 3 200 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### Skin corrosion/irritation

##### Components:

##### **tetrahydro-4-methylphthalicanhydride:**

Species : Rabbit  
Exposure time : 24 h  
Method : Other guidelines  
Result : No skin irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

### 1,2,3,6-tetrahydro-3-methylphthalic anhydride:

Species : Rabbit  
Exposure time : 24 h  
Method : Other guidelines  
Result : No skin irritation

### hexahydro-4-methylphthalic anhydride:

Species : Rabbit  
Exposure time : 24 h  
Assessment : No skin irritation  
Method : Other guidelines  
Result : Mild eye irritant

### 1,2,3,6-tetrahydrophthalic anhydride:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Components:

#### tetrahydro-4-methylphthalicanhydride:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

#### 1,2,3,6-tetrahydro-3-methylphthalic anhydride:

Species : Rabbit  
Result : Irreversible effects on the eye

#### hexahydro-4-methylphthalic anhydride:

Result : Risk of serious damage to eyes.

#### 1,2,3,6-tetrahydrophthalic anhydride:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

### Respiratory or skin sensitisation

#### Components:

#### tetrahydro-4-methylphthalicanhydride:

Result : May cause sensitisation by inhalation.

Result : May cause sensitisation by skin contact.

#### 1,2,3,6-tetrahydro-3-methylphthalic anhydride:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Exposure routes : Respiratory Tract  
Species : Humans  
Result : May cause sensitisation by inhalation.  
  
Result : May cause sensitisation by skin contact.

### hexahydro-4-methylphthalic anhydride:

Assessment : May cause sensitisation by skin contact.  
  
Assessment : May cause sensitisation by inhalation.

### 1,2,3,6-tetrahydrophthalic anhydride:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.  
  
Result : May cause sensitisation by inhalation.

### Germ cell mutagenicity

#### Components:

#### tetrahydro-4-methylphthalicanhydride:

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
  
Test Type: Ames test  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

#### 1,2,3,6-tetrahydro-3-methylphthalic anhydride:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	09.12.2021	400001007937	11.07.2017
			Date of first issue: 26.05.2016

Print Date 01.07.2024

Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### hexahydro-4-methylphthalic anhydride:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Ames test  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### 1,2,3,6-tetrahydrophthalic anhydride:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Ames test  
Test system: Salmonella tryphimurium and E. coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

## Reproductive toxicity

### Components:

#### tetrahydro-4-methylphthalicanhydride:

Effects on fertility : Test Type: Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Oral

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Dose: 0, 30, 100 and 300 mg/kg  
General Toxicity - Parent: NOAEL: > 300 mg/kg body weight  
General Toxicity F1: NOAEL: > 300 mg/kg body weight  
Method: OECD Test Guideline 422

### 1,2,3,6-tetrahydro-3-methylphthalic anhydride:

Effects on fertility : Test Type: Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 30, 10 and 300 milligram per kilogram  
Frequency of Treatment: 1 daily  
General Toxicity - Parent: NOAEL: 300 mg/kg body weight  
General Toxicity F1: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 422

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 30, 100 and 300 milligram per kilogram  
Duration of Single Treatment: 38 - 49 d  
General Toxicity Maternal: NOAEL: 100 mg/kg body weight  
Developmental Toxicity: NOAEL: > 300 mg/kg body weight  
Method: OECD Test Guideline 422

### hexahydro-4-methylphthalic anhydride:

Effects on fertility : Test Type: Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: > 300 mg/kg body weight  
General Toxicity F1: NOAEL: > 300 mg/kg body weight  
Method: OECD Test Guideline 422

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: > 140 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: > 140 mg/kg body weight  
Method: OECD Test Guideline 414

### 1,2,3,6-tetrahydrophthalic anhydride:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 250 mg/kg body weight  
Method: OECD Test Guideline 421

### Repeated dose toxicity

#### Components:

#### **tetrahydro-4-methylphthalicanhydride:**

Species : Rat, male and female  
NOAEL : 100 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Application Route : Oral  
Exposure time : 49 days  
Number of exposures : daily  
Dose : 0, 30, 100 and 300mg/kg/day  
Control Group : yes  
Method : OECD Test Guideline 422

### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

Species : Rat, male and female  
NOAEL : 100 mg/kg bw/day  
Application Route : Oral  
Exposure time : 38 - 49 days  
Number of exposures : Daily  
Dose : 0, 30, 100 and 300mg/kg bw  
Control Group : yes  
Method : OECD Test Guideline 422

### **hexahydro-4-methylphthalic anhydride:**

Species : Rat, male and female  
NOEL : 50 mg/kg  
NOAEL : 450 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 407  
Target Organs : Stomach

### **1,2,3,6-tetrahydrophthalic anhydride:**

Species : Rat, male and female  
NOAEL : 600 mg/kg  
Application Route : oral (gavage)  
Method : Regulation (EC) No. 440/2008, Annex, B.7

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : oral (gavage)  
Method : Regulation (EC) No. 440/2008, Annex, B.7

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **tetrahydro-4-methylphthalicanhydride:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 130 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 64 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (algae)): 32 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 69,87 mg/l  
Exposure time: 3 h  
Test Type: flow-through test  
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Japanese medaka)  
Test Type: flow-through test  
Method: OECD Test Guideline 204
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

##### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 130 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 75 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 32 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 69,87 mg/l  
Exposure time: 3 h  
Test Type: flow-through test  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Japanese medaka)  
Test Type: flow-through test  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

### hexahydro-4-methylphthalic anhydride:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 135 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 32 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 218,8 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

### 1,2,3,6-tetrahydrophthalic anhydride:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 65,3 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201
- NOEC (Scenedesmus capricornutum (fresh water algae)): 50 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Components:

#### **tetrahydro-4-methylphthalicanhydride:**

- Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 28 d  
Method: OECD Test Guideline 301C
- Stability in water : Degradation half life (DT50): 4,3 min (5 °C)  
pH: 7  
Method: OECD Test Guideline 111
- Degradation half life (DT50): 3,2 min (20 °C)  
pH: 7  
Method: OECD Test Guideline 111
- Degradation half life (DT50): 2,9 min (25 °C)  
pH: 7  
Method: OECD Test Guideline 111

#### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

- Biodegradability : Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

Method: OECD Test Guideline 301C

Stability in water : Degradation half life (DT50): 4,3 min (5 °C)  
pH: 7  
Method: OECD Test Guideline 111

Degradation half life (DT50): 3,2 min (20 °C)  
pH: 7  
Method: OECD Test Guideline 111

Degradation half life (DT50): 2,9 min (25 °C)  
pH: 7  
Method: OECD Test Guideline 111

### hexahydro-4-methylphthalic anhydride:

Biodegradability : Inoculum: activated sludge  
Concentration: 40 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 1,2,3,6-tetrahydrophthalic anhydride:

Biodegradability : Concentration: 11,5 mg/l  
Result: Biodegradable, but failing 10-d window  
Biodegradation: 99 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 28 d  
Kinetic:  
7 d: 2 %  
14 d: 17 %  
21 d: 58 %  
27 d: 98 %  
28 d: 99 %  
Method: Regulation (EC) No. 440/2008, Annex, C.4-A

Stability in water : Degradation half life (DT50): 6,92 min (20 °C)  
pH: 7  
Method: OECD Test Guideline 111

Degradation half life (DT50): 2,17 min (30 °C)  
pH: 7  
Method: OECD Test Guideline 111

Degradation half life (DT50): 1,05 min (50 °C)  
pH: 7  
Method: OECD Test Guideline 111

## 12.3 Bioaccumulative potential

### Components:

#### tetrahydro-4-methylphthalicanhydride:

Partition coefficient: n- : log Pow: 1,88 (40 °C)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

octanol/water      pH: 5,9  
Method: OECD Test Guideline 117

### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

Bioaccumulation      :      Bioconcentration factor (BCF): 3,16

Partition coefficient: n-      :      log Pow: 1,75 (40 °C)  
octanol/water      pH: 5,3  
Method: OECD Test Guideline 117

### **hexahydro-4-methylphthalic anhydride:**

Bioaccumulation      :      Bioconcentration factor (BCF): 3,16

Partition coefficient: n-      :      log Pow: 0,11 (40 °C)  
octanol/water      pH: 3,3  
Method: OECD Test Guideline 117

### **1,2,3,6-tetrahydrophthalic anhydride:**

Bioaccumulation      :      Bioconcentration factor (BCF): 3,30

Partition coefficient: n-      :      log Pow: 1,29 (40 °C)  
octanol/water      pH: 5,9  
Method: OECD Test Guideline 117

## 12.4 Mobility in soil

### Components:

#### **1,2,3,6-tetrahydro-3-methylphthalic anhydride:**

Mobility      :      Medium: Air  
Content: 0,19 %  
Method: Calculation, Mackay Level III Fugacity Model

Distribution among      :      Koc: 10 ml/g, log Koc: 1  
environmental compartments      Method: QSAR

#### **hexahydro-4-methylphthalic anhydride:**

Mobility      :      Medium: Air  
Content: 0 %  
Method: Calculation, Mackay Level III Fugacity Model

:      Medium: Water  
Content: 19,9 %  
Method: Calculation, Mackay Level III Fugacity Model

:      Medium: Soil  
Content: 80 %  
Method: Calculation, Mackay Level III Fugacity Model

:      Medium: Sediment  
Content: 0,12 %  
Method: Calculation, Mackay Level III Fugacity Model

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

Distribution among environmental compartments : Koc: 130 ml/g, log Koc: 2,113  
Method: QSAR

### 1,2,3,6-tetrahydrophthalic anhydride:

Distribution among environmental compartments : OECD Test Guideline 121  
Medium: Soil  
log Koc: 1,70  
Method: OECD Test Guideline 121

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## 12.7 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version 1.2      Revision Date: 09.12.2021      SDS Number: 400001007937      Date of last issue: 11.07.2017  
Date of first issue: 26.05.2016

Print Date 01.07.2024

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Not regulated as dangerous goods

#### 14.2 UN proper shipping name

Not regulated as dangerous goods

#### 14.3 Transport hazard class(es)

Not regulated as dangerous goods

#### 14.4 Packing group

Not regulated as dangerous goods

#### 14.5 Environmental hazards

Not regulated as dangerous goods

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : hexahydro-4-methylphthalic anhydride

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Occupational Illnesses (R-461-3, France) : Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

DSL : This product contains one or several components listed in the Canadian NDSL.

AICC : On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

### Inventories

AICS (Australia), AIIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

---

## SECTION 16: Other information

### Full text of H-Statements

H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Resp. Sens. : Respiratory sensitisation  
Skin Sens. : Skin sensitisation

### Further information

#### Classification of the mixture:

Eye Dam. 1 H318  
Resp. Sens. 1 H334

#### Classification procedure:

Calculation method  
Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## ARADUR® 917 CH

Version	Revision Date:	SDS Number:	Date of last issue: 11.07.2017
1.2	09.12.2021	400001007937	Date of first issue: 26.05.2016

Print Date 01.07.2024

Skin Sens. 1

H317

Calculation method

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.