



# Safety Data Sheet

According to Regulation (EC) No 453/2010 (REACH)



Trade name: Resolva Xtra Fast RTU

MAPP 20063

Version:2.0

Revision date: 21.02.2023

Print date:21.02.2023

## Supplemental Hazard information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

## Statements

none

## Precautionary Statements

- P101 – If medical advice is needed, have product container or label at hand
- P102 – Keep out of reach of children
- P262- Do not get in eyes, on skin, or on clothing
- P264 – Wash hands thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P273- Avoid release to the environment
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 – If eye irritation persists: Get medical advice / attention

## Special rules for supplemental label elements for certain mixtures:

### Additional labelling:

**Adverse physicochemical effects:** No information available

**Adverse human health effects and symptoms:** No information available

**Adverse environmental effects:** No information available

**Other adverse hazards:** No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances** N/A

### 3.2 Mixtures

**Description** Plant protection agent, Pesticide, Herbicide, Finished spray formulation

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## Hazardous ingredients

Chemical Name	CAS-No. EC-No. Registration number	Concentration %W/W	Regulation (EC) No 1272/2008 (CLP)
Nonanoic acid	CAS: 112-05-0 EC:203-931-2 01-2119529247-37	<5%	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

See Section 16 for the full text of the H statements declared above

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General Information:** Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.  
Remove contaminated clothing immediately and dispose of safely.

**Inhalation:** Move person to fresh air.  
Keep patient warm and at rest.  
Consult a physician for severe cases.

**Skin Contact:** Wash off with soap and plenty of water.  
If symptoms persist, call a physician.

**Eye Contact:** Rinse several minutes cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing. If eye irritation persists: Get medical advice / Get medical attention.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.  
Consult a physician if necessary.

**Self-protection of the first aider:** Wear protective gloves

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

**Symptoms:** none expected

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**Effects:** none expected

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

**Information for doctor:**

**Treatment** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

Use water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>)

**Unsuitable Extinguishing Media:** Water jet.

### 5.2 Specific Hazards Arising From the Substance or Mixture:

In fire proximity toxic gases can form.

### 5.3 Advice for Fire Fighters:

Wear a positive-pressure supplied-air respirator with full face-piece. Complete suit protecting against chemicals.

### Additional Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

**For non-emergency personnel**

**Protective equipment:** safety glasses, protective gloves

**Emergency procedures:** Avoid contact with skin and eyes.

**For emergency responders**

Personal protective equipment: safety glasses, protective gloves



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**6.2 Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

## 6.3 Methods and material for containment and cleaning up

**For containment and cleaning up:** Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).

**Other information:** Transfer to a container for disposal according to local / national regulations (see section 13) Check also for any local site procedures

## 6.4 Reference to other sections

**Additional information:** See Section 1 for emergency contact information.

See Section 7 for safe handling information.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### Protective measures:

- Avoid contact with eyes and skin.
- Do not eat, drink or smoke when using this product.
- Take off contaminated clothing and wash before reuse.
- Wash hands forearms and face and observe good hygiene practice after handling this product.
- Take notice of the directions of use on the label.

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

- Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (See Section 10). Protect from freezing.



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- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Keep away from food, drink and animal foodstuffs.

## 7.3 Specific End Uses:

Use as herbicide according to the instruction on the label.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Preventive industrial medical examinations are to be carried out.

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Occupational exposure limit value		Monitoring and observation processes	Peak limitation	Source
				Long term	Short term			
OEL (EU)	nonanoic acid	203-931-2	112-05-0				20 mg/m <sup>3</sup>	Syngenta

#### 8.1.2 Biological limit values:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Limit Value	Parameter	Test material	Test date	Source
OEL (EU)	nonanoic acid	203-931-2	112-05-0	No data	No data	No data	No data	No data

#### 8.1.3 Exposure limits at intended use: N/A

#### 8.1.5 Risk management measures according to used control banding approach

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT)

Task	Hazard band	Scale of use	Ability to become	Control approach	Control guidance sheet
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			airborne		
N/A					
N/A					
N/A					

## 8.2 Exposure Controls

**8.2.1 Appropriate Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**8.2.2 Protective Measures:** The use of technical measures should always have priority over the use of personal protective equipment. A risk assessment based on the task being performed and the risks involved should be carried out to determine personal protection equipment required to avoid mists, gases or dusts. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

**Eye Protection:** Wear splash goggles (conforming to EN166)

**Skin and Body Protection:** Wearing of closed work clothing is recommended.

**Hand Protection:** Wear protective gloves complying with EN 374 (butyl-rubber, Chloroprene, PVC) when handling the product over long periods or if a risk assessment indicates this is necessary.

**Respiratory Protection:** Ensure thorough ventilation of stores and work areas. Avoid inhalation of vapour.

**Environmental exposure controls:** Do not flush into surface water or sanitary sewer system.



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## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** Milky white liquid

**Physical state:** Liquid

**Colour:** Milky white

**Odour:** Characteristic

**Odour threshold:** None

### 9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	<b>7.8+1</b>	No data	No data	<b>20°C</b>	No data	No data
Melting point/freezing point	No data	No data	No data	No data	No data	No data
Initial boiling point/boiling range	No data	No data	No data	No data	No data	No data
Flash point	No data	No data	No data	No data	No data	No data
Evaporation rate	No data	No data	No data	No data	No data	No data
Flammability (solid, gas)	No data	No data	No data	No data	No data	No data
Upper/lower flammability or explosive limits	No data	No data	No data	No data	No data	No data
Upper explosive limits	No data	No data	No data	No data	No data	No data
Lower explosive limits	No data	No data	No data	No data	No data	No data
Vapour pressure	No data	No data	No data	No data	No data	No data
Vapour density	No data	No data	No data	No data	No data	No data
Relative density	<b>0.9958g/ml</b>	No data	No data	<b>20°C</b>	No data	No data
Solubility(ies)	<b>0.8g/l</b>	No data	No data	<b>20°C</b>	No data	No data
Partition coefficient: n-octanol/water	No data	No data	No data	No data	No data	No data
Auto-ignition temperature	No data	No data	No data	No data	No data	No data
Decomposition	No data	No data	No data	No data	No data	No data

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temperature						
Viscosity	No data					
Viscosity, dynamic	No data					
Viscosity, cinematic	No data					
Explosive properties	No data					
Oxidising properties	No data					

**Physical hazards:** None known

## 10 STABILITY AND REACTIVITY

**10.1 Reactivity:** No known reactions

**10.2 Chemical Stability:** Stable under normal conditions of storage, handling and use.

**10.3 Possibility of Hazardous Reactions:** No hazardous reactions if stored and handled as instructed

**10.4 Conditions to Avoid:** None known.

**10.5 Incompatible Materials:** No substances known that should be avoided.

**10.6 Hazardous Decomposition:** No decomposition products expected under normal conditions of use

## 11 TOXICOLOGICAL INFORMATION

### SECTION 11: Toxicological Information

#### Toxicokinetics, metabolism and distribution

##### 11.1 Information on toxicological effects

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## 11.1.1 Substances

### Acute toxicity

**Practical experience / human evidence:** None

**Animal data:**

**Acute Oral Toxicity:** LD50 (rat) ca. > 2000 mg/kg

The product was not tested. The statements were derived from products of similar structure and composition.

**Acute Inhalation Toxicity:** LC50 (rat) > 5.1 mg/l

Method: Acute Inhalation Toxicity

**Acute Dermal Toxicity:** LC50 Dermal (rat) > 2000 mg/l

Information given is based on data obtained from similar substances.

**Other information:** Information given is based on data obtained from similar substances.

**Assessment / Classification:** Based on the data available, no classification is required

### Skin corrosion/irritation

**Practical experience / human evidence:**

**Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)**

Acidic reserve [g NaOH/100 g product]: no data

Alkaline reserve [g H<sub>2</sub>SO<sub>4</sub>/100 g product]: no data

**Animal data:** Contact with skin causes irritation (rabbit).

Information given is based on calculated data obtained from similar substances.

**In-vitro skin test:** No data

**Other information:** No data

**Assessment / Classification:** Causes skin irritation

### Eye damage/irritation

**Practical experience / human evidence:** None

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**Animal data:** Contact with eyes causes irritation (rabbit).  
Information given is based on calculated data obtained from similar substances.

**In vitro eye test:** No data

**Other information: no data**

**Assessment / Classification:** Based on available data, the classification criteria are not met.

**Sensitisation to the respiratory tract/skin:** Does not cause skin sensitization.  
Information given is based on data obtained from similar substances.

**Sensitisation to the respiratory tract** : Does not cause skin sensitization.  
Information given is based on data obtained from similar substances.

**Practical experience / human evidence:** No data

**Other information:**

**Assessment / Classification:** Based on available data, the classification criteria are not met

## **Skin sensitisation**

**Practical experience / human evidence:** Does not cause skin sensitization.  
Information given is based on data obtained from similar substances

**Animal data:** no data

**Other information:** none

**Assessment / Classification:** Based on available data, the classification criteria are not met.

## **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

### **Reproductive toxicity**

**Practical experience / human evidence:** None

**Animal data**

Adverse effects on sexual function and fertility: No data

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Adverse effects on developmental toxicity: No data  
Effects on or via lactation: No data

**Other information:** Contains no ingredient listed as mutagenic effects or toxic to reproduction.

**Assessment / Classification:** The mixture is not classified as specific target organ toxicant, single exposure or repeated exposure.

**Overall assessment on CMR properties:** Contains no ingredient listed as mutagenic effects or toxic to reproduction.

## Aspiration hazard

**Practical experience / human evidence:**No data available.

**Experimental data:** No data.

**Assessment / Classification:** Based on available data, the classification criteria are not met.

## **Symptoms related to the physical, chemical and toxicological characteristics:**

In case of ingestion: See Section 4 of this data sheet

In case of skin contact: See section 4 of this data sheet

In case of inhalation: See section 4 of this data sheet

In case of eye contact: See section 4 of this data sheet

**Other information:** No information available.

## 12 ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### **Aquatic Toxicity:**

**Acute (short-term) fish toxicity:** LC50 (Oncorhynchus mykiss (rainbow trout)) = 86.8 mg/l

Exposure time: 96 h

Remarks: The product is a dilution in water of Mixture A < 25%



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**Chronic (long-term) fish toxicity:** No data  
**Acute (short-term) toxicity to crustacea:** No data  
**Chronic (long-term) toxicity to crustacea:** No data

**Acute (short-term) toxicity to algae and cyanobacteria:** IC50 (Pseudokirchneriella subcapitata (green algae)) = 40.1 mg/l  
Exposure time: 72h  
Remarks: The product is a dilution in water of Mixture A < 25%

**Toxicity To Bacteria:** No information available.

**Toxicity to other aquatic plants / organisms:** EC50 (Water flea (Daphnia magna)) = 141 mg/l  
Exposure time: 48 h  
Remarks: The product is a dilution in water of Mixture A < 25%

Toxicity to microorganisms: No information available

**Sediment toxicity:** No data

**Terrestrial toxicity:** No data

**Toxicity to soil macro-organisms except arthropods:** No data  
**Toxicity to terrestrial arthropods:** No data  
**Toxicity to terrestrial plants:** No data  
**Toxicity to birds:** No data

**Assessment / Classification:** Based on lack of data no classification is possible

## 12.2 Persistence and degradability

**Biodegradation:** Readily biodegradable.

**Abiotic Degradation:** No information available

**Assessment / Classification:** Based on the data available no classification can be made

## 12.3 Bioaccumulative potential: No bioaccumulation is to be expected.

**Bioconcentration factor (BCF)**

**Assessment / Classification:** Based on the data available, no classification is required

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**12.4 Mobility in soil:** Groundwater contamination is unlikely.

**Assessment / Classification:** No Classification required

**12.5 Results of PBT and vPvB assessment:** Not applicable

**12.6 Other adverse effects:**

**Additional ecotoxicological information:** No information available

**Results of PBT and vPvB assessment:**

Not applicable

**Other Dangerous Effects:** None

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

This material must be disposed of in a safe way.

**Contaminated Packaging:** The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal.

The container must be disposed of in a safe way.

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## 14 TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN No.</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.2 UN Proper shipping name</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.3 Transport hazard class(es)</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Hazard label(s)</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.4 Packing group</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.5 Environmental hazards</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

**14.6 Special precautions for user:** None known

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Additional information:** N/A

## 15 REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance of mixture:**

**15.1.1 EU regulations**

**Authorisations:** MAPP 20063

**Restrictions on use:** Use only as herbicide

**Other EU regulations:** Not applicable

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**Directive 2010/75/EC on industrial emissions:** Not applicable

**Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases:** Not applicable

## 15.1.2 National regulations

Dispose of contents and container see Section 13

## 15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment is not required.

## 16 OTHER INFORMATION

**16.1 Indication of changes :** Update of warning symbols, hazard statements.

## 16.2 Abbreviations and acronyms:

ADR	International Carriage of Dangerous Goods by Road
ASTM	American Society for the Testing of Materials
CAS No	Chemicals Abstract Service Registry Number
CLP	Classification, Labelling and Packaging Regulation [ Regulation (EC) No. 1272/2008]
DIN	Standard of the German Institute for Standardisation
DNEL	Derived no Effect Level
DMEL	Derived Minimal Effect Level
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IC50	Half maximal inhibitory concentration
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
vPvB	Very Persistent and Very Bioaccumulative
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, Evaluation, Authorisation and restriction of Chemicals
RID	International Transport of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative Properties

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**16.3 Key literature references and sources for data:** Syngenta

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008**

**[CLP]:**

See SECTION 2.1 (classification).

**16.5 Relevant R-, H- and EUH-phrases (number and full text):**

Full texts of abbreviated H Statements refer to under Section 3:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**16.6 Training advice:** Follow the instructions as per label

**16.7 Further information:**

Before using this product, ensure that you read and understand its label

MSDS information:

This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.