



MATERIAL SAFETY DATA SHEET

Disclaimer

1 : Identification of the substance

Product Code / Trade Name :	RW101371 / 10-undecen-1-al (aldehyde C-11 undecylenic)
------------------------------------	---

2 : Composition / information on ingredients

Chemical characterization :

Hazardous ingredient(s) :

10-undecen-1-al 90.00 - 100.00 %

Hazard symbols : N R phrases : 51/53

mol./wt. : 168.2759000 formula : C11 H20 O cas : 112-45-8

einecs number : 203-973-1

epa-srs Niosh

3 : Hazard identification

Most important hazards :

Dangerous for the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Keep out of the reach of children.

Avoid release to the environment. Refer to special instructions/safety data sheet.

4 : First-aid measures

Remove contaminated soaked clothing and wash before reuse.

After eye contact :

In case of contact with eyes, rinse immediately with plenty of water for at least 10 minutes and seek medical advice.

After skin contact :

After contact with skin, wash immediately affected area with soap and plenty of

MATERIAL SAFETY DATA SHEET	
	water.
	After inhalation :
	If inhaled, remove person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
	After ingestion :
	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Obtain immediate medical advice.
5 : Fire-fighting measures	
	Extinguishing media :
	Carbon Dioxide; Dry Chemical; Universal-Type Foam.
	Special firefighting procedures :
	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
	Unusual fire and explosion hazards :
	Emits toxic fumes under fire conditions.
6 : Accidental release measures	
	Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Keep people away, evacuate area.
	To avoid possible contamination of the environment, Do not discharge into any drains, surface waters or groundwaters.
	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors.
	Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.
7 : Handling and storage	
	Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear eyeshields and protective clothing. Smoking should not be permitted in work areas.
	Provide suitable air extraction ventilation in the work areas. Vapors may form explosive mixtures with air. Keep material away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges.
	To be stored in tightly sealed and preferably full containers in cool, dry and ventilated area. Protect from heat/overheating and light sources.
	Keep in glass, suitable plastic, aluminum or laquer-lined containers.
8 : Exposure controls / personal protection	
	Occupational exposure limits :

MATERIAL SAFETY DATA SHEET

OSHA TWA : Not determined

ACGIH TWA : Not determined

NIOSH TWA : Not determined

OSHA PEL : Not determined

ACGIH STEL : Not determined

NIOSH STEL : Not determined

Respiratory protection :

Do not breath vapors. Mechanical exhaust required. In confined or poorly ventilated areas, the use of an appropriate respiratory protection may be required.

Hand protection :

Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.

Eye protection :

Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Body protection :

Light protective clothing recommended. Wash contaminated clothing before reuse.

Hygiene measures :

Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Safety shower and eye bath recommended.

9 : Physical and chemical properties

Appearance / odor :

colorless to pale yellow clear liquid / waxy aldehydic rose mandarin citrus soapy fatty

Melting point : Not determined

Boiling point : 98.00 - 100.00°C. @ 3.00 mmHg

Flash point (Deg. F.) : 199.00 °F. TCC (92.78 °C.)

Flammability : Not determined

Autoflammability : Not determined

Explosive properties : Not determined

Oxidizing properties : Not determined

Vapor pressure : 0.074 mm/Hg @ 25.00 °C.

Vapor density : Not determined

Volatile by volume : 100.00 %

Evaporation rate : Not determined

Specific gravity : 0.84000 - 0.84800 @ 25 °C.

PH of Product : Not determined

Solubility in water : Insoluble

MATERIAL SAFETY DATA SHEET

10 : Stability and reactivity

Stability :	Stable
Conditions to avoid :	Heat, excessive heat, open flames and other sources of ignition.
Incompatibility :	Strong oxidizing agents, strong reducing agents.
Hazardous decomposition products :	Carbon monoxide, carbon dioxide. Hazardous polymerization will not occur.

11 : Toxicological information

Acute effects :	Dangerous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Oral Toxicity(LD50) :	Oral-Rat >5000.00 mg/kg (Hart & Wong, 1971)
Dermal Toxicity(LD50) :	Skin-Rabbit >5.00 gm/kg FCTXAV 11,479.1973
Skin Irritation :	Skin-Rabbit 500.00 mg/24hours mild FCTXAV 11,1079.1973
Eye Irritation :	Not determined
Inhalation data(LC50) :	Not determined
Mutagenicity data :	Not determined
Phototoxicity data :	Not determined
Human experience :	Not determined
Carcinogenicity :	Per OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS : No
Reproductive toxin :	Per OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS : No
On the TSCA Inventory? :	Yes

12 : Ecological information

Biodegradability	
Readily biodegradable :	Not determined
Inherently biodegradable :	Not determined
Ecotoxicity	
Fish :	Not determined
Algae :	Not determined
Daphnia :	Not determined
Bacteria :	Not determined
Further information :	Prevent contamination of soil, ground and surface waters. Do not discharge product unmonitored into the environment.

MATERIAL SAFETY DATA SHEET	
Mixture reportable to :	None found
13 : Disposal considerations	
Dispose of in accordance with all federal, state and local environmental regulations.	
14 : Transport information	
US DOT Hazard Class :	combustible liquid, n.o.s.
UN Number :	1993
UN Pkg. Group :	III
UN item :	Not determined
ERG Number :	128
Land transport (ADR/RID)	
Class :	Not determined
Transportfactor :	Not determined
Marine transport (IMDG)	
IMDG-class :	Not determined
Page No. :	Not determined
MFAG :	Not determined
EmS-No. :	Not determined
Air transport (IATA)	
IATA-class :	Not determined
Passenger :	Not determined
Cargo :	Not determined
15 : Regulatory information	
European information :	
N - Dangerous for the environment. R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S 02 - Keep out of the reach of children. S 61 - Avoid release to the environment. Refer to special instructions/safety data sheet.	
Reviews, standards, and regulations :	
Stabilized with 0.1% BHT Not subject to EU Allergen labeling	

MATERIAL SAFETY DATA SHEET			
16 : Other information			
Fema No. :		3095	
Hazardous materials identification system :			
Fire : 2	Health : 1	Reactivity : 0	Personal protection : B

<http://www.sparchem.com>