

SAFETY DATA SHEET



According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision date: 08-05-2020
Trade name: Baldiez

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

1.1 Product identification:

Product name: Baldiez
IUPAC designation: 2-Propanone | acetone
Index no : 606-001-00-8
CAS No : 67-64-1
EC No : 200-662-2
EC Registration: 01-2119471330-49

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

Use of the substance or mixture: Identified uses: See table on the first page of the appendix for a complete overview of identified uses.
Uses advised against: No advised uses are currently identified.
Notes: Check product quality before referring to an exposure scenario attached to this safety data sheet: the exposure scenarios given are not related to product quality.

1.3 Details of the supplier of the safety data sheet:

Manufacturer : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Identification of hazards

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

The product is classified according to current legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Flammable liquids, Category 2 --- H225

Eye irritation, Category 2 --- H319

Specific target organ toxicity - single exposure, Category 3 - Central nervous system - H336

Full text of H phrases in section 16.

Adverse physicochemical, health and environmental effects

Human health:

See section 11 for toxicological information.

Physical and chemical hazards:

See section 9/10 for physicochemical information.

Potential environmental impacts:

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See section 12 for environmental information.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word

Danger.

Hazardous ingredients to be declared on the label:

- Acetone

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes severe eye irritation.

H336 May cause drowsiness or dizziness.

Precautions

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.

P243 Take measures to prevent static electricity discharges.

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

Action:

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

P304 + P340 IF INHALED: Remove the person to fresh air and ensure that they can breathe easily.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if possible; continue rinsing.

Storage :

P403 + P233 Keep in a well-ventilated place. Keep in tightly closed container.

Additional labelling:

EUH066 Repeated exposure may cause dry or cracked skin.

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components whose assumed to have endocrine disrupting properties, according to REACH article 57(f) or the Commission's delegated regulation (EU) 2017/2100 or the regulation of the Commission (EU) 2018/605 at level 0.1% or above.

Toxicological information:

The substance/mixture does not contain any components whose assumed to have endocrine disrupting properties, according to REACH article 57(f) or the Commission's delegated regulation (EU) 2017/2100 or the regulation of the Commission (EU) 2018/605 at level 0.1% or above.

SECTION 3: Composition and information on ingredients

3.1 Substances:

Chemical Name	Cas no. EC No. Index no. Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Acetone Formula : C3H6O	67-64-1 200-662-2 606-001-00-8	Flam. Liq.2, H225; Eye Irrit.2, H319; STOT SE3, H336	80

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Molecular weight : 58.08 g/mol	01-2119471330-49		
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Full text of H-Statements: see section 16

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General advice:

Remove exposure, put down.
Remove contaminated clothing immediately.
If symptoms, consult a doctor.

By inhalation:

Transfer to fresh air.
In case of irregular breathing or respiratory arrest, apply artificial respiration.
If unconscious, lay person on his side.
Consult a doctor after significant exposure.

On contact with skin:

Immediately wash with soap and plenty of water.
In case of persistent skin irritation, consult a doctor.

On contact with eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 5 minutes.
If eye irritation persists, consult a specialist.

If swallowed:

Clean mouth with water and then drink lots of water.
Never make an unconscious person drink (or eat). DO NOT induce vomiting. Someone lying on their back and vomiting should be placed in a stable side position.
Call a doctor immediately.

Protection of first responders:

First responders should remember to protect themselves and wear the recommended protective clothing.

4.2 Main acute and delayed symptoms and effects:

Symptoms:

Acid poisoning
Check the alkaline reserve
Shortness of breath
Symptoms of overexposure may include headache, dizziness, fatigue, nausea and vomiting.
See section 11 for more detailed information on health effects and symptoms.

Effects:

Aspiration hazard if swallowed - may enter lungs and cause damage.
Aspiration can cause pulmonary oedema and pneumonia.

4.3 Indication of immediate medical attention and special treatment required:

Treatment:

Symptomatic treatment.
Afterwards, check for pneumonia and pulmonary oedema.
In case of breathlessness, administer oxygen.
Artificial ventilation and/or oxygen may be necessary.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Use water spray, alcohol-resistant foam, drying powder or carbon dioxide.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture:

Specific hazards in firefighting:

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Highly flammable liquid and vapour.
The vapour may be invisible, heavier than air and spread over the ground.
Vapours can form explosive mixtures with air.
Fire recoil possible over a considerable distance.

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO₂)

5.3 Advice for firefighters:

Special protective equipment for firefighters:

In case of fire, wear a compressed air mask.
Wearing suitable protective clothing is necessary (chemical suit).

Further advice:

Cool closed containers near the fire with water spray.
Pressure increase when heated - risk of cracking.
Collect contaminated firefighting water separately.
It should not drain to the sewerage system.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions:

Keep away from heat and ignition sources.
Keep unprotected persons away.
Use personal protective equipment.
Ensure adequate air ventilation.
Avoid contact with eyes and skin.
Do not inhale vapours or spray mist.

6.2 Environmental precautions:

Environmental precautions:

Do not drain into surface water or the sewerage system.
Avoid penetration into the soil.
If the product contaminates rivers, lakes or sewers, inform the respective authorities.
If the material reaches the ground inform the authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning:

Containment and cleaning methods and materials:

Contain spill and collect with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Further information:

Handle absorbed material as described in the "Disposal" section.

6.4 Reference to other sections:

See Section 1 for emergency contact details.
See Section 8 for information on personal protective equipment.
See section 13 for information on waste treatment.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Safe handling advice:

Keep in tightly closed container.
Ensure adequate ventilation.
Use personal protective equipment.
Avoid contact with eyes, skin and clothing.
Do not inhale vapours or spray mist.
In an emergency, eye showers should be available nearby.

Hygiene measures:

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Keep away from food, drink and animal feed.
No smoking, eating and drinking in the workplace.
Wash hands before every work break and at the end of the working day.
Remove all soiled clothing immediately.

7.2 Conditions for safe storage, including incompatibilities:

Requirements for storage areas and containers:

Store in original container.
Store in an area fitted with a solvent-resistant floor.
Suitable materials for vessels are: liquid steel; iron.

Unsuitable materials for the containers are:

Plastic materials

Advice on protection against fire and explosion:

Keep away from sources of ignition - No smoking.
The vapour may be invisible, heavier than air and spread over the ground.
Vapours can form explosive mixtures with air.
Take measures to prevent the generation of electrostatic charge.
Use only in an area equipped with explosion-proof equipment.

Details of storage conditions:

Store tightly closed in a dry and cool place.
Do not expose to direct sunlight.
Store in a well-ventilated place.

Advice for mixed storage:

Incompatible with oxidising agents.
Do not store together with oxidising and self-igniting products.
Keep away from food, drink and animal feed.

7.3 Specific end use:

Specific use:

Identified uses: See table on the first page of the appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

Component: acetone CAS No 67-64-1

Derived no-effect doses (DNEL) / derived minimum effect (DMEL)

Workers, long-term - systemic effects, Skin contact: 186 mg/kg bw/day
Workers, long-term - systemic effects, Inhalation: 1210 mg/m³
Workers, Acute - local effects, Inhalation : 2420 mg/m³
Consumers, long-term - systemic effects, Skin contact: 62 mg/kg bw/day
Consumers, long-term - systemic effects, Inhalation: 200 mg/m³
Consumers, long-term - systemic effects, Ingestion: 62 mg/kg bw/day

Predicted no-effect concentration (PNEC)

Freshwater : 10.6 mg/l
Seawater: 1.06 mg/l
Intermittent releases: 21 mg/l
Wastewater treatment plant: 100 mg/l
Freshwater deposition: 30.4 mg/kg, 30.4 mg/kg d.w.
Sea deposits: 3.04 mg/kg, 3.04 mg/kg d.w.
Soil: 29.5 mg/kg

Other occupational exposure limits

EU. Indicative Limit Values in Directives 91/322 / EEC, 2000/39 / EC, 2006/15 / EC, 2009/161 / EU, Time Weighted Average (TWA):
500 ppm, 1,210 mg/m³
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Belgium. OEL, Time-weighted average (TWA):
500 ppm, 1,210 mg/m³
Belgium. OEL, Short-term exposure limit (STEL)
1,000 ppm, 2,420 mg/m³, (15 minutes)
Netherlands. OEL (binding), Short-term exposure limit (STEL):
2,420 mg/m³, (15 minutes)
Netherlands. OEL (binding), Time Weighted Average (TGG):
1,210 mg/m³

8.2 Exposure control measures:

Appropriate technical measures

See protective measures in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory protection.

Respiratory protection according to EN 141.

Recommended filter type: AX

In case of prolonged exposure use self-breathing apparatus.

Hand protection

Recommendation : Protective gloves according to EN 374.

Observe regulations on permeability and soak time, as supplied by the glove supplier.

Also take into account specific local conditions of use, such as danger of cuts, wear and tear and touch time.

Safety gloves should be replaced when worn.

Material : butyl rubber

Breakthrough time : >= 4 h

Glove thickness : 0.5 mm

Eye protection

Recommendation : Full-face safety goggles.

Skin and body protection

Recommendation : Use solvent-resistant protective clothing.

Managing environmental exposure

General advice : Do not drain into surface water or the sewerage system.

Avoid penetration into the soil.

If the product contaminates rivers, lakes or sewers, inform the respective authorities.

If the material reaches the ground inform the authorities responsible for such cases.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Form :	liquid
Physical state :	liquid
Colour:	colourless
Smell:	sweet, aromatic
Odour threshold value:	13 ppm
Melting point/trajectory:	-94,7°C
Boiling point/boiling range:	56.05°C
Flammability (solid, gas):	Not applicable
Upper explosion limit / Upper flammability limit:	14,3 %(V)
Lower explosion limit / Lower flammability limit:	2,5 %(V)
Flash point:	-17°C
	Method: closed cup
Self-ignition temperature:	465°C
Decomposition temperature:	235°C
Self-accelerating decomposition temperature (SADT):	No data available

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pH:	5 - 6 (20°C) Concentration: 395 g/l
Viscosity	
Viscosity, dynamic:	0.32 mPa.s (20°C)
Viscosity, kinematic:	No data available
Expiry time:	No data available
Solubility	
Solubility in water:	completely miscible
Solubility in other solvents:	No data available
Decomposition rate:	No data available
Partition coefficient: n-octanol/water:	log Pow: -0,24 (20°C)
Dispersion stability:	No data available
Vapour pressure:	240 hPa (20°C) 800 hPa (50°C)
Relative density:	No data available
Density:	0.79 g/cm ³ (20°C)
Bulk specific gravity:	No data available
Relative vapour density:	2.1 (20°C)
Particle characteristics:	No data available
9.2 Other information	
Explosive substances :	There may be a risk of explosion in vapour/air mixtures.
Flammability (liquids):	Highly flammable liquid and vapour.
Evaporation rate:	2,0 (Ether = 1)
Molecular weight:	58.09 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity:

No decomposition if directions are followed.

10.2 Chemical Stability:

Stable under recommended storage conditions.

10.3 Potential Hazardous Reactions:

Vapours may form explosive mixture with air.

Possible formation of peroxide.

10.4 Conditions to avoid:

Conditions to avoid:

Heat, flames and sparks.

Thermal decomposition:

235°C

10.5 Chemically Interacting Materials:

Strong reducing agents, Oxidisers, Halogenated compounds, Alkali metals, Ethanolamine, Hydrogen peroxide, Ammonium nitrate, Organic peroxides, Potassium permanganate, Nitric acid, Alkali hydroxides.

10.6 Hazardous Decomposition Products:

In case of fire: Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Component: acetone CAS No 67-64-1

Acute toxicity (oral):

LD50 : 5800 mg/kg (Rat) (Guideline test OECD 401).

Causes mouth and throat pain, nausea, vomiting, dizziness, headache and a risk of unconsciousness.

Acute toxicity (dermal):

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LD50 : > 15800 mg/kg (Rat)

Acute toxicity (inhalation):

LC50 : approximately 76 mg/l (Rat; 4 h).

May cause pain in nose and throat, dizziness, headache, decreased reactivity and, at high concentration, unconsciousness.

Skin corrosion/irritation:

Result: No skin irritation (Guinea pig) Repeated exposure may cause dry or cracked skin.

Serious eye damage/eye irritation:

Result: Irritating to eyes. (Rabbit) (Guideline test OECD 405) Exposure may cause corneal damage.

Respiratory/skin sensitisation:

Result: not sensitising (Guinea pig) (Guideline test OECD 406).

CMR effects

Carcinogenicity

(Negative, Mouse, female)(Skin)(No guideline followed).

CMR properties

Carcinogenicity:

Animal tests have shown no carcinogenic effects.

Mutagenicity:

Tests on cell cultures of bacteria or mammals have not shown mutagenic effects.

In vivo tests showed no mutagenic effects.

Teratogenicity:

Causes developmental effects in animals at high doses.

Reproductive toxicity:

Animal studies have shown no effects on fertility.

Genotoxicity in vitro

Results:

Negative (In vitro test for chromosomal aberrations; CHO (Chinese hamster ovary) cells; with and without metabolic activation) (Guideline test OECD 473).

Negative (In vitro test for gene mutation in mammalian cells; Mouse lymphoma cells; no) (Guideline test OECD 476).

Negative (bacterial reverse mutation test; Salmonella typhimurium; with and without metabolic activation) (Guideline test OECD 471).

Genotoxicity in vivo

Results:

Negative (In vivo micronucleus test; Mouse, male and female)

Teratogenicity

Results:

Negative (Prenatal developmental toxicity study; Rat)(Inhalation)(Guideline test OECD 414).

Specific target organ toxicity

Single exposure

Notes:

Target organs: central nervous system.

May cause drowsiness or dizziness.

Repeated exposure

Notes:

Based on available data; classification criteria not met.

Other toxic properties

Repeated-dose toxicity

NOAEL : 900 mg/kg bw/day (Rat)(Oral; 90 days)

NOAEC : 22500 mg/m³ (Rat)(Inhalation; 8 Weeks)

Aspiration hazard

Based on available data; classification criteria not met.

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Further information

Experience of exposing people:

Symptoms of overexposure may include headache, dizziness, fatigue, nausea and vomiting.

Chronic exposure can cause dermatitis.

Chronic inhalation causes fatigue, headaches and rhinitis.

11.2. Information on other hazards

Data for the product

Endocrine-disrupting properties

Assessment:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity:

Component: acetone CAS No 67-64-1

Acute toxicity

Fish

LC50 : 5,540 mg/l (Oncorhynchus mykiss; 96 h)

LC50 11,000 mg/l (Alburnus alburnus; 96 h)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 8,800 mg/l (Daphnia pulex (water flea); 48 h)

Algae

NOEC : 430 mg/l (Prorocentrum minimum; 96 h)

Bacteria

EC12 : 1000 mg/l (activated sludge; 0.5 h) (static test; Endpoint: Respiratory inhibition; OECD Test Guideline 209)

Chronic toxicity

Aquatic invertebrates

NOEC 2212 mg/l (Daphnia pulex (water flea); 28 d) (Endpoint: Reproduction)

12.2 Persistence and Degradability:

Component: acetone CAS No 67-64-1

Persistence and degradability

Persistence

Result : Decomposition by hydrolysis.

Biodegradability

Result : 91 % (Exposure time: 28 d)(OECD test guideline 301B)Readily biodegradable.

12.3 Bioaccumulation:

Component: acetone CAS No 67-64-1

Bioaccumulation

Result : log Pow -0.24: BCF: 3; (BCFWIN Software) Bioaccumulation is not expected.

12.4 Mobility in soil:

Component: acetone CAS No 67-64-1

Mobility

Air:

The product evaporates easily.

Water:

The product is water-soluble

Bottom:

Mobile in soil

12.5 Results of PBT and vPvB assessment:

Data for the product

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Results of PBT and vPvB assessment

Result: This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component: acetone CAS No 67-64-1

Results of PBT and vPvB assessment

Result: This substance is not considered to be persistent, bioaccumulative or toxic (PBT), This substance is not considered to be very persistent or very bioaccumulative (vPvB).

12.6. Endocrine-disrupting properties

Data for the product

Potential endocrine disruption:

The substance/mixture does not contain components believed 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 level 0.1% or higher.

12.7 Other Harmful Effects:

Data for the product

Additional ecological information

Results:

Do not drain into surface water or the sewerage system.
Avoid penetration into the soil.

Component: acetone CAS No 67-64-1

Biochemical oxygen demand (BOD)

Results:

1760 mg/g (incubation time: 5 d)
Chemical oxygen demand (COD)

Results:

2100 mg/g

Additional ecological information

Results:

Do not drain into surface water or the sewerage system.
Avoid penetration into the soil.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product:

Disposal together with normal waste is prohibited.
Special disposal is required according to local regulations.
Do not allow product to enter drains.
Contact waste management service.

Contaminated packaging:

Empty used containers thoroughly.
Packaging can be reused after thorough cleaning.
If reuse is not possible, dispose of according to local regulations.
Do not burn or handle the empty vessel with cutting torch.
Risk of explosion.

European waste list number (EWCN):

A waste code according to the European Waste Catalogue cannot be assigned for this product, as the intended use dictates the assignment.
The waste code is established in consultation with the regional waste disposal authority.

SECTION 14: Information relating to transport

14.1 UN number

ADR-UN no:

1090

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IATA UN number: 1090
IMDG-UN number: 1090
14.2 Proper cargo name according to UN model regulations
ADR shipping name: ACETON
IATA shipping name: ACETON
IMDG shipping name: ACETONE

14.3 Transport hazard class(es)
ADR Class: 3
(Labels; Classification code;
Hazard identification no;
Tunnel restriction code): 3; F1; 33; (D/E)
RID Class: 3
(Labels; Classification code;
Hazard identification no.): 3; F1; 33
IMDG Class: 3
(Labels; EMS): 3; F-E, S-D

14.4 Packing group
ADR packaging group: II
IATA Packaging Group: II
IMDG Packing group: II

14.5 Environmental hazards
Environmentally hazardous according to ADR : no
Environmentally hazardous according to RID : no
Marine pollution according to IMDG code : no

14.6 Special precautions for the user
Expires.

14.7 Sea transport in bulk in accordance with IMO instruments
Not applicable for product, as delivered.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Component: acetone CAS No 67-64-1

Regulation (EC) No 273/2004, drug precursors, Category 3:

Code according to the list of the CN (Combined Nomenclature) system: , 2914 11 00

Restricted (Annex I) & reportable (Annex II) Explosives Precursors, Regulation (EU) 2019/1148:

ANNEX II: PRECURSORS TO REPORT EXPLOSIONS: List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

EU. REACH, Annex XVII, Marketing and use restrictions (Regulation 1907/2006/EC):

Item Neg.: 40; Listed.

Directive 2012/18/EU (SEVESO III) Annex I:

Requirements for low threshold devices: 5,000 tonnes; Part 1: Categories of hazardous substances; P5c:

Flammable liquids, Category 2 or 3 not covered by P5a and P5b, The information given is valid, if the product is stored below its boiling point and at a pressure of 1013 hPa.

Requirements for high threshold establishments: 50,000 tonnes; Part 1: Categories of hazardous substances;

P5c: Flammable liquids, Category 2 or 3 not covered by P5a and P5b, The information given is valid, if the product is stored below its boiling point and at a pressure of 1013 hPa.

Notification status acetone:

Regulatory list	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-662-2

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ENCS (JP)	YES	(2)-542
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(2)-542
JEX (JP)	YES	(2)-542
KECI (KR)	YES	KE-29367
NZIOC	YES	HSR001070
ONT INV	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	55-1-05314
TH INV	YES	2914.11
TSCA	YES	
VN INVL	YES	

15.2 Chemical safety assessment:

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-phrases as listed in sections 2 and 3.

H225 Highly flammable liquid and vapour.

H319 Causes severe eye irritation.

H336 May cause drowsiness or dizziness.

Abbreviations and acronyms

AU AIICL :	Australia. Industrial Chemicals Act (AIIC) List
BCF :	Bioconcentration factor
BOD :	Biochemical oxygen demand
CAS :	Chemical Abstracts Service
CLP :	Classification, labelling and packaging
CMR :	Carcinogenic, mutagenic or reprotoxic
COD :	Chemical oxygen demand
DNEL :	Derived dose without effect
DSL Canada :	Environmental Protection Act, Domestic Substances List
EINECS :	European Inventory of Existing Commercial Chemical Substances
ELINCS :	European list of notified substances
ENCS (JP) Japan :	Kashin-Hou Law List
GHS :	Globally harmonised classification and labelling system for chemicals
IECSC China :	Inventory of Existing Chemical Substances
INSQ Mexico :	National Inventory of Chemical Substances
ISHL (JP) Japan :	Inventory of Industrial Safety & Health
KECI (KR) Korea :	Existing Chemicals Inventory
LC50 :	Lethal concentration 50%
LOAEC :	Lowest concentration at which an adverse effect was observed
LOAEL :	Lowest dose or concentration at which an adverse effect was observed
LOEL :L	lowest dose or concentration at which an effect was observed
NDSL Canada :	Environmental Protection Act. Non-Domestic Substances List
NLP :	No longer polymer
NOAEC :	Concentration at which no adverse effect was observed
NOAEL :	Dose or concentration at which no adverse effect was observed
NOEC :	Concentration with no observed effects
NOEL :	Dose or concentration at which no effect was observed
NZIOC New Zealand :	Inventory of Chemicals

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OECD :	Organisation for Economic Co-operation and Development
OEL :	Occupational exposure limit value
ONT INV Canada :	Ontario Inventory List
PBT :	Persistent, bioaccumulative and toxic
PHARM (JP) Japan :	Pharmacopoeia Listing
PICCS (PH) Philippines :	Inventory of Chemicals and Chemical Substances
PNEC :	Predicted no-effect concentration
REACH aut. no. :	REACH authorisation number
REACH council pl. No :	REACH consultation number of the application for authorisation
STOT :	Specific target organ toxicity
SVHC :	Substance of very high concern
TCSI Taiwan :	Existing Chemicals Inventory
TH INV Thailand :	Existing Chemicals Inventory from FDA
TSCA US :	Toxic Substances Control Act
UVCB :	Substance of unknown or variable composition, complex reaction products and biological materials
VN INVL Vietnam :	National Chemical Inventory
zPzB :	Very persistent and very bioaccumulative

Further information

Key literature references and data sources:

Supplier information and data from the "Database of Registered Substances" of the European Chemicals Agency (ECHA) were used to produce this safety data sheet.

Methods used for the product:

The classification for human health, physical and chemical risks and environmental hazards were derived from a combination of calculation methods and, where available, test data.

Hints for training sessions:

Workers should be regularly trained on the safe handling of the products based on the information provided in the safety data sheet and the local conditions of the workplace information. National regulations for training workers in the handling of hazardous substances must be followed.

Other information:

The information provided here is correct and complete to the best of our knowledge at the date of issue of this safety data sheet.

The information relates only to the product mentioned and does not guarantee the quality and completeness of the product's properties, or in case the product is used together with other products or in any other process.

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Annex: Exposure scenario

Identified use:

Use: production and on-site use

SU 3: Industrial uses: use of substances on their own or in preparations on industrial sites

SU 3, SU9: Industrial uses: Use of substances on their own or in preparations on industrial sites, Manufacture of fine chemicals

PC19: Average

PROC1: Use in closed process, exposure not likely

PROC2: Use in a closed, continuous process with occasional controlled exposure

PROC3: Use in a closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (filling/emptying) from/to vessels/large containers at specialised facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC15: Use as a laboratory reagent

ERC1: Manufacture of fabrics

Use: Formulation of preparations

SU 3: Industrial uses: use of substances on their own or in preparations on industrial sites

SU 10: Formulation [mixing] of preparations and/or repackaging (excluding alloys)

PROC2: Use in a closed, continuous process with occasional controlled exposure

PROC3: Use in a closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where risk of exposure occurs

PROC5: Mixing or blending in batch processes for formulating preparations and articles (multi-stage and/or significant contact)

PROC8b: Transfer of substance or preparation (filling/discharging) from/to vessels/large containers at specialised facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC15: Use as a laboratory reagent

ERC2: Formulation of preparations

Use: Used as a laboratory reagent

SU 22: Professional use: Public domain (administration, education, entertainment, services, craftsmen)

SU 3, SU 22, SU24: Industrial uses: Use of substances on their own or in preparations at industrial sites,

Professional uses: Public domain (administration, education, entertainment, services, craftsmen), Scientific research and development

PC21: Laboratory chemicals

PROC10: Application by roller or brush

PROC15: Use as a laboratory reagent

ERC4, ERC8a: Industrial use of processing aids in processes and products, which do not become part of objects, Widespread indoor use of processing aids in open systems, Use: Industrial use of processing aids in processes and products, which do not become part of objects

SU 3: Industrial uses: use of substances on their own or in preparations on industrial sites

SU 3, SU9: Industrial uses: Use of substances on their own or in preparations on industrial sites, Manufacture of fine chemicals

PC20: Products such as pH regulators, flocculants, precipitants, neutralisers

PC21: Laboratory chemicals

PROC3: Use in a closed batch process (synthesis or formulation)

PROC4: Use in batch and other process (synthesis) where risk of exposure occurs

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PROC5: Mixing or blending in batch processes for the formulation of preparations and articles (multi-stage and/or significant contact)

PROC6: Calendar operations

PROC7: Industrial spraying

PROC8b: Transfer of substance or preparation (filling/discharging) from/to vessels/large containers at specialised facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Application by roller or brush

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as a laboratory reagent

ERC4, ERC6b, ERC1: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of reactive processing aids, Manufacture of substances

1. Short title of exposure scenario: on-site manufacturing and use

Main user groups: SU 3

Sectors of end use: SU 3, SU9

Chemical product category: PC19

Process categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Environmental emission categories : ERC1:

2. Exposure scenario

2.1 Contribution scenario controlling environmental exposure for: ERC1 Product characteristics

Concentration of substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

2.2 Contribution scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15, PC19

Product features

Concentration of substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

Physical form (during use):

High-volatility liquid

Frequency and duration of use:

Application duration : > 4 h

Frequency of use: 220 days/year

Other operational conditions affecting worker exposure

Outside / Inside:

Inside

Technical conditions and measures

Ensure adequate ventilation.

Good working practice required.

Organisational measures to prevent/limit release, spread and exposure.

Ensure employees are trained to minimise exposure.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection and gloves.

For personal protection, see section 8.

3. Exposure estimation and reference to source Environment

A chemical safety assessment has been carried out in accordance with REACH Article 14(3), Annex I, sections 3 (Environmental risk assessment) and 4 (PBT/vPvB assessment).

As no hazard has been identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I paragraph 5.0).

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Workers

Contributing scenario	Exposure assessment method	Specific circumstances	Value	Exposure level	RCR*
PROC1	ECETOC TRA	Without local exhaust	Dermal	0.03 mg/kg BW/d	0
PROC1	ECETOC TRA	Without local exhaust	Inhalation	0.02 mg/m ³	0
PROC2	ECETOC TRA	Without local exhaust	Inhalation	0.02 mg/m ³	0
PROC2	ECETOC TRA	Without local exhaust	Dermal	0.03 mg/kg BW/d	0
PROC3	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC3	ECETOC TRA	Without local exhaust	Dermal	0.69 mg/kg BW/d	0.004
PROC4	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC4	ECETOC TRA	Without local exhaust	Inhalation	169.17 mg/m ³	0.14
PROC8a	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC8a	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC8b	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC8b	ECETOC TRA	Without local exhaust	Inhalation	253.75 mg/m ³	0.21
PROC9	ECETOC TRA	Without local exhaust	Inhalation	338.33 mg/m ³	0.28
PROC9	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC15	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC15	ECETOC TRA	Without local exhaust	Dermal	0.34 mg/kg BW/d	0.002

*Ratio of risk characterisation

4. Guidelines for downstream user to evaluate working within the limits set by the exposure scenario

Refer to the following documents: ECHA guidance document on information requirements and chemical safety assessment Part D: Establishment of exposure scenarios, Part E: Risk characterisation and Part G: Extension of the SDS; VCI/Cefic REACH signposts on exposure assessment and communication in the supply chain; CEFIC guidelines Specific Environmental Emission Categories (SPERCs).

1. Short title of the exposure scenario: formulation of preparations

Main user groups: SU 3

Sectors of end use: SU 10

Process categories: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC15

Environmental emission categories : ERC2:

2. Exposure scenario

2.1 Contribution scenario controlling environmental exposure for: ERC2 Product characteristics

Concentration of the substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

2.2 Contribution scenario controlling worker exposure for: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC15

Product features

Concentration of substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

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Physical form (during use):

High-volatility liquid

Frequency and duration of use

Application duration : > 4 h

Frequency of use: 220 days/year

Other operational conditions affecting worker exposure

Outside / Inside:

Inside

Technical conditions and measures

Ensure adequate ventilation.

Good working practice required.

Organisational measures to prevent/limit release, spread and exposure

Ensure employees are trained to minimise exposure.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection and gloves.

For personal protection, see section 8.

3. Exposure estimation and reference to source Environment

A chemical safety assessment has been carried out in accordance with REACH Article 14(3), Annex I sections 3 (Environmental risk assessment) and 4 (PBT/vPvB assessment). As no hazard has been identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

Workers

Contributing scenario	Exposure assessment method	Specific circumstances	Value	Exposure level	RCR*
PROC2	ECETOC TRA	Without local exhaust	Inhalation	0.02 mg/m ³	0
PROC2	ECETOC TRA	Without local exhaust	Dermal	0.03 mg/kg BW/d	0
PROC3	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC3	ECETOC TRA	Without local exhaust	Dermal	0.69 mg/kg BW/d	0.004
PROC4	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC4	ECETOC TRA	Without local exhaust	Inhalation	169.17 mg/m ³	0.14
PROC5	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC5	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC8b	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC8b	ECETOC TRA	Without local exhaust	Inhalation	253.75 mg/m ³	0.21
PROC9	ECETOC TRA	Without local exhaust	Inhalation	338.33 mg/m ³	0.28
PROC9	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC15	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC15	ECETOC TRA	Without local exhaust	Dermal	0.34 mg/kg BW/d	0.002

*Ratio of risk characterisation

4. Guidelines for downstream user to evaluate working within the limits set by the exposure scenario

Refer to the following documents: ECHA guidance document on information requirements and chemical safety assessment Part D: Establishment of exposure scenarios, Part E: Risk characterisation and Part G: Extension of the SDS; VCI/Cefic REACH signposts on exposure assessment and communication in the supply chain; CEFIC guidelines Specific Environmental Emission Categories (SPERCs).

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1. Short title of exposure scenario: used as laboratory reagent

Main user groups: SU 22
Sectors of end use: SU 3, SU 22, SU24
Chemical product category: PC21
Process categories: PROC10, PROC15
Environmental emission categories : ERC4, ERC8a:

2. Exposure scenario

2.1 Contribution scenario controlling environmental exposure for: ERC4, ERC8a Product characteristics

Concentration of substance in mixture/Article:
Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

2.2 Contribution scenario controlling worker exposure for: PROC10, PROC15, PC21 Product characteristics

Concentration of the substance in mixture/article:
Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

Physical form (during use):

High-volatility liquid

Frequency and duration of use

Application duration : > 4 h

Frequency of use: 220 days/year

Other operational conditions affecting worker exposure

Outside / Inside:

Inside

Technical conditions and measures

Ensure adequate ventilation, Good working practice required.

Organisational measures to prevent/limit release, spread and exposure

Ensure employees are trained to minimise exposure.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection and gloves,, For personal protection, see section 8.

3. Exposure estimation and reference to source Environment

A chemical safety assessment has been carried out in accordance with REACH Article 14(3), Annex I sections 3 (Environmental risk assessment) and 4 (PBT/vPvB assessment). As no hazard has been identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

Workers

Contributing scenario	Exposure assessment method	Specific circumstances	Value	Exposure level	RCR*
PROC10	ECETOC TRA	Without local exhaust	Dermal	27.43 mg/kg BW/d	0.147
PROC10	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC15	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC15	ECETOC TRA	Without local exhaust	Dermal	0.34 mg/kg BW/d	0.002

*Ratio of risk characterisation

4. Guidelines for downstream user to evaluate working within the limits set by the exposure scenario

Refer to the following documents: ECHA guidance document on information requirements and chemical safety assessment Part D: Establishment of exposure scenarios, Part E: Risk characterisation and Part G: Extension of the SDS; VCI/Cefic REACH signposts on exposure assessment and communication in the supply chain; CEFIC guidelines Specific Environmental Emission Categories (SPERCs).

1. Short title of exposure scenario: industrial use of processing aids in processes and products, which do not become part of articles

Main user groups: SU 3

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Sectors of end use: SU 3, SU9

Chemical product category: PC20, PC21

Process categories : PROC3, PROC4, PROC5, PROC6, PROC7, PROC8b, PROC9, PROC10, PROC13, PROC15

Environmental emission categories: ERC4, ERC6b, ERC1:

2. Exposure scenario

2.1 Contribution scenario controlling environmental exposure for: ERC4, ERC6b, ERC1

Product features

Concentration of substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

2.2 Contribution scenario controlling worker exposure for: PROC3, PROC4, PROC5, PROC6, PROC7, PROC8b, PROC9, PROC10, PROC13, PROC15, PC20, PC21

Product features

Concentration of substance in mixture/article:

Covers the percentage of the substance in the product up to 100 % (unless otherwise stated).

Physical form (during use):

High-volatility liquid

Frequency and duration of use

Application duration : > 4 h

Frequency of use: 220 days/year

Other operational conditions affecting worker exposure

Outside / Inside:

Inside

Technical conditions and measures

Ensure adequate ventilation, Good working practice required.

Organisational measures to prevent/limit release, spread and exposure

Ensure employees are trained to minimise exposure.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection and gloves,, For personal protection, see section 8.

3. Exposure estimation and reference to source Environment

A chemical safety assessment has been carried out in accordance with REACH Article 14(3), Annex I sections 3 (Environmental risk assessment) and 4 (PBT/vPvB assessment). As no hazard has been identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

Workers

Contributing scenario	Exposure assessment method	Specific circumstances	Value	Exposure level	RCR*
PROC3	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC3	ECETOC TRA	Without local exhaust	Dermal	0.69 mg/kg BW/d	0.004
PROC4	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC4	ECETOC TRA	Without local exhaust	Inhalation	169.17 mg/m ³	0.14
PROC5	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC5	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC6	ECETOC TRA	Without local exhaust	Dermal	27.43 mg/kg BW/d	0.147
PROC6	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC7	ECETOC TRA	Without local exhaust	Inhalation	845.83 mg/m ³	0.699
PROC7	ECETOC TRA	Without local exhaust	Dermal	42.86 mg/kg BW/d	0.23

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PROC8b	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.074
PROC8b	ECETOC TRA	Without local exhaust	Inhalation	253.75 mg/m ³	0.21
PROC9	ECETOC TRA	Without local exhaust	Inhalation	338.33 mg/m ³	0.28
PROC9	ECETOC TRA	Without local exhaust	Dermal	6.86 mg/kg BW/d	0.037
PROC10	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC10	ECETOC TRA	Without local exhaust	Dermal	27.43 mg/kg BW/d	0.147
PROC13	ECETOC TRA	Without local exhaust	Inhalation	422.92 mg/m ³	0.35
PROC13	ECETOC TRA	Without local exhaust	Dermal	13.71 mg/kg BW/d	0.74
PROC15	ECETOC TRA	Without local exhaust	Inhalation	84.58 mg/m ³	0.07
PROC15	ECETOC TRA	Without local exhaust	Dermal	0.34 mg/kg BW/d	0.002

*Ratio of risk characterisation

4. Guidelines for downstream user to evaluate working within the limits set by the exposure scenario

Refer to the following documents: ECHA guidance document on information requirements and chemical safety assessment Part D: Establishment of exposure scenarios, Part E: Risk characterisation and Part G: Extension of the SDS; VCI/Cefic REACH roadmap iJzers on exposure assessment and communication in the supply chain; CEFIC guidelines Specific Environmental Emission Categories (SPERCs).