# Material Safety Data Sheet

CYCLODODECANONE

(DAICEL EVONIK

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

	CYCLODODECA	NONE	
Abbreviation	CODN		
Company	DAICEL-EVONIK Ltd.		
Head Office	〒163-0912	2-3-1 Nishi-shinjuku, Shinjuku-ku, Tokyo, Japan	
Dealing Department	Tokyo Office	Sales department	Tel.03-5324-6331 Fax.03-5324-6336
	Osaka Office	Sales department	Tel.06-6342-6712 Fax.06-6342-6718
Emergency address and tel.No.	Tokyo Office	Sales department	Tel.03-5324-6331
	Aboshi Plant	Quality Assurance Dept.	Tel.079-273-3872
Preparation of MSDS	Aboshi Plant	Quality Assurance Dept.	
	〒671-1281	1000 shinesiles Abashi lee	
	10/1 1201	1239 sninzaike,Abosni-ku,	Himeji,hyogo,Japan
HAZARDS IDENTIFICATION GHS Classification			Tel.079-273-3872 Fax.079-274-3927
	H411		
GHS Classification			Tel.079-273-3872 Fax.079-274-3927
GHS Classification Environmental Hazards Pictogram			Tel.079-273-3872 Fax.079-274-3927
GHS Classification Environmental Hazards Pictogram Signal word	H411	Hazardous to the aquatic	Tel.079-273-3872 Fax.079-274-3927
GHS Classification Environmental Hazards Pictogram Signal word Hazard statement (code)	H411 H411 H411	Hazardous to the aquatic d	Tel.079-273-3872 Fax.079-274-3927 environment (long-term hazar category 2
GHS Classification Environmental Hazards Pictogram Signal word	H411 H411 H411 P273	Hazardous to the aquatic Toxic to aquatic life with le Avoid release to the enviro	Tel.079-273-3872 Fax.079-274-3927 environment (long-term hazar category 2
GHS Classification Environmental Hazards Pictogram Signal word Hazard statement (code)	H411 H411 H411	Hazardous to the aquatic Toxic to aquatic life with le Avoid release to the enviro Collect spillage.	Tel.079-273-3872 Fax.079-274-3927 environment (long-term hazar category 2

Substance /Nature	Substance	Substance			
Chemical Nature	CYCLODODECANONE	CYCLODODECANONE			
Information on ingredients					
Component	CAS No.	REACH No.	METI		
CYCLODODECANC	NE 830-13-7	01-2119474882-27	3-2379		
Other information					
FIRST AID MEASURES					
Description of first aid measures	Pay attention to self-protect	ion.			
	Remove victims 1rom hazar	dous area.			
	Keep warm, position comfo	rtably, and cover well			
	Do not leave affected person	ns unattended.			
Inhalation	In case of symtoms of irrita	tion caused by vapours in therr	nal processing:		
	Provide fresh air, seek m	edical advice if nessesary.			
	Following inhalation of prod	uct dust: See that there is fres	h air.		
Skin contact	Wash off with plenty of wate	er and soap.			
	Following contact with hot p	roduct, cool quickly with cold	water until pain ceases.		
	Do not remove congealed p	roduct 1rom the skin. Consult o	doctor immediately		
	• •		,		

In case of burns by molten product medical treatment is necessary.

Grade	CYCLODODECANONE
Version 5	
Release Date 2014/7/1	
Revision Date	
Eye contact	With eye held open, throughly rince immediatelt with plenty of water at lease 10 minutes.
	If eye irritation persists, consult a specialist.
Ingestion:	Is considered an unlikely route of exposure, further measures are not necessary.
. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Water spray, foam, dry chemical powder or carbon dioxide.
Unsuitable extinguish media/methods	high volume water jet
Special hazards arising from the substar	nce or mixture
	May be released in case of fire: carbon monooxide, carbon dioxide, organic product of decomposition.
	Under certain fire conditions, traces of other toxic product may occur.
Additional Information	Have ready/ wear respiratory protection equipment.
. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipm	nent and emergency procedures
	In case product dust is released : Dust mask
Envirmental precautions	Should not be relesed into the envirmant.
Methods and material for containment a	
	Use mechanical handling equipmen
	Fill into marked, sealable containers.
	To be disposed of in compliance with existing regulations.
Reference to other sections	Wear personal protective equipment
. HANDLING AND STORAGE	
Precautions for safe handling	Avoid dust formation.
	Provide for appropriate exhaust ventilation and dust collection at machinery.
	In case of thermal processing, provide for extraction of the vapous or adequate ventilation.
Conditions for safe storage, in cluding a	ny incompatibilities
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	ny incompatibilities plosion General rules of fire prevention should be observed.
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Version	5		
Release Date	2014/7/1		
Revision Date			
Hygiene meas	ures	Observe the rules usually applicable when handling chemicals.	
		Do not breathe dust.	
		Do not wear contaminated clothing.	
		Avoid contact with skin and eyes.	
		Smoking, eating and drinking should be prohibited in the application area.	
		Wash hands before breaks and at the end of workday.	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Toxicity to reproduction

crystals
colourless
solid (20 ℃)
liquid (100 ℃)
of camphor
not determined
cal properties
neutral
ca. 61°C
277℃
118℃
No decomposition if stored and applied as directed.
Not explosive as defined by EU hazardous substance law.
If dusts develop, explosive dust/air mixtures may form.
0.71hPa (20°C)
0.97g/cm3 (25℃)
ca.26mg/l
The range of values given complies with the variation range of the product group.
The specific physical chemical data can be available in the product information.
Under normal conditions: stable.
Stable under recommended storage conditions.
Risk of spontaneous ignition (above 120°C, in finely divided form, in the presence of atmospheric oxygen)
No specific hazards are known.
None known
Decomposition products in combustion and thermal decomposition
Carbon monoxide Carbon monoxide organic products of decomposition
LD50 rat: >2 500 mg/kg
No data available
No data available
Rabbit slightly irritating
Rabbit not irritating
{Magnusson-Kligman test} guinea pig: Did not cause sensitization on laboratory animals.
The substance or mixture is not classified as specific target organ toxicant, single exposure.
No data available
No Aspiration toxicity classification
No data available
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. No data available

No data available

### Material Safety Data Sheet

Grade 5 Version 2014/7/1 Release Date Revision Date

CYCLODODECANONE

# **12. ECOLOGICAL INFORMATION**

Toxicity to fish	No data available
Toxicity in aquatic investebrates	EC50 Daphnia magna: 2.5 mg/L/48h
Toxicity to algae	EC50 scenedesmus subspicatus: 7.7 mg/L /72 h
Persistence and degradability	Exposure time 28day
Biodegradabilit	result: 93% readily biogradable.
Bioaccumulation	Bioaccum ulation is unlikely.
Mobility in soil	The soil mobility of the substance is significantly affected by adsorption to soil components.
Further Information	No further information available

#### 13. DISPOSAL CONSIDERATIONS

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

( DAICEL EVONIK

#### **14. TRANSPORT INFORMATION**

Land transport (ADR/RID):	
UN:	3077
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(cyclododecanone)
Class:	9
Packing Group:	Ш
Environmental hazards:	Yes
Special precautions for user:	Yes
	ADR: Tunnel Restriction Code: (E)
Sea transport (IMDG):	
UN:	3077
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(cyclododecanone)
Class:	9
Packing Group:	Ш
Environmental hazards:	Yes
Special precautions for user:	No
Air transport (ICAO/IATA);	
Air transport (ICAO/IATA):	777

UN: 3077 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(cyclododecanone) Class: 9 Packing Group: III Environmental hazards: Yes Special precautions for user: Yes IATA-C: ERG-Code 9L IATA-P: ERG-Code 9L

# **15. REGULATORY INFORMATION**

National legislation

Europe (EINECS/ELINCS) listed/registered USA (TSCA) listed/registered Australia (AICS) listed/registered Japan (MITI) listed/registered Philippines (PICCS) listed/registered China listed/registered New Zealand listed/registered

# **16. OTHER INFORMATION**

**Further information** 

The information provided in the Safety Data Sheet is corrected to the best of our knowledge, information and belief at the data of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.