Safety Data Sheet According to Regulation (EC) No 1907/2006

Butanone oxime

Issue date: 29/07/2015

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Version 1.0

SDS Record Number: CSSS-TCO-010-117769

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:

Additional identification:

REACH registration No.:

Identification of the product:

Index Number:

CAS#: 96-29-7 ; EC# : 202-496-6 616-014-00-0 01-2119539477-28-xxxx

Butanone oxime

Butanone oxime

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

1.2.1 Identified uses:

F-1: Manufacturing liquid paints

F-2: Formulation of liquid paints containing MEKO

IW-1: Industrial application of coatings

IW-2: Intermediate use of MEKO

IW-3: Formulation of liquid paints containing MEKO

IW-4: Intermediate use of MEKO

PW-1: Professional application of coatings (Indoor)

PW-2: Professional application of coatings (Outdoor)

PW-3: Professional application of paints containing MEKO

C-1: Consumer application of coatings (Indoor)

C-2: Consumer application of coatings (Outdoor)

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):	Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer):	Wuhan Biet Co.,Ltd
Address:	Room 1004, Block V, Wuhan Furniture Plaza, Qiaokou District, Wuhan, China
Contact person(E-mail):	olivia@biet.com.cn
Telephone:	+86-27-83698488
Fax:	+86-27-83291213
1.4 Emergency telephone Number:	
+353 41 980 6916	
Available outside office hours?	YES NO X

Section 2 Hazards Identification

2.1 Classification of the substance/mixture

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008		
Hazard classes/Hazard categories	Hazard statement	
Acute Tox. 4	H312	
Eye Damage 1	H318	
Skin Sens. 1	H317	
Carc. 2	H351	

For full text of H- phrases: see section 2.2.

2.2 label elements

Hazard Pictograms:



Signal Word(S):	Danger
Hazard Statement:	H312: Harmful in contact with skin.
	H317: May cause an allergic skin reaction.
	H318: Causes serious eye damage.
	H351: Suspected of causing cancer < inhalation exposure>.
Precautionary statement	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P312: Call a POISON CENTER or doctor/physician if you feel unwell.
	P302+P352: IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

The substance is not considered a PBT/vPvB.

Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Butanone oxime	01-2119539477-28-xxxx	96-29-7	202-496-6	99.89 % (w/w)

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove to fresh air.

4.1.2 In case of skin contact:

After contact with skin, wash immediately with plenty of water.

4.1.3 In case of eyes contact:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4.1.4 In case of ingestion:

When swallowed, allow water to be drunk.

4.2 Most important symptoms and effects, both acute and delayed

Harmful in contact with skin. May cause an allergic skin reaction. Causes serious eye damage.

Suspected of causing cancer < inhalation exposure>.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:	
Suitable extinguishing media:	Foam, Carbon dioxide (CO2), Dry powder
Unsuitable extinguishing media:	Not available
5.2 Special hazards arising from the substance or mixture	Emits toxic fumes under fire conditions. Combustible liquid.
5.3 Special fire fighting methods and	Wear self-contained breathing apparatus and protective clothing to prevent contact
special protective actions for fire-fighters:	with skin and eyes.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:	Ensure adequate ventilation. Remove all sources of ignition. Use personal protective
	equipment.
6.1.2 For emergency responders:	Use proper personal protective equipment as indicated in Section 8.
6.2 Environmental Precautions:	Do not allow material to be released to the environment without proper governmental
	permits
6.3 Methods for Containment and Cleaning up:	Soak up with inert absorbent material. Pick for disposal in tightly closed containers
6.4 Reference to other sections:	See Section 7 for information on safe handling.
	See section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.
6.5 Additional information:	Not available

Section 7 Handling and storage

7.1 Precautions for safe handling:	
7.1.1 Protective measures:	Advice on safe handling: Exhaust ventilation at the object is necessary.
	Advice on protection against fire and explosion: No special precautions required.
7.1.2 Advice on general occupational	Do not eat, drink and smoke in work areas. Wash hands after use. Remove
hygiene:	contaminated clothing and protective equipment before entering eating areas.
7.2 Conditions for safe storage, including	Further information on storage conditions: Keep containers tightly closed in a dry, cool
any incompatibilities:	and well-ventilated place. Protect from warmth. Containers should be protected
	against falling down.
7.3 Specific end use(s):	Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

- 8.1.1 Occupational exposure limits: Not available
- 8.1.2 Additional exposure limits under the Not available

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

DN(M)ELs for workers

Route	Type of effect	Hazard conclusion	Most sensitive endpoint
Inhalation	Systemic effects - Long-term	DNEL (Derived No Effect Level): 9 mg/m ³	repeated dose toxicity (By inhalation)
Inhalation	Systemic effects - Acute		
Inhalation	Local effects - Long-term	DNEL (Derived No Effect Level): 3.33 mg/m ³	repeated dose toxicity
Inhalation	Local effects - Acute		
Dermal	Systemic effects - Long-term	DNEL (Derived No Effect Level): 1.3 mg/kg bw/day	repeated dose toxicity (By inhalation)
Dermal	Systemic effects - Acute		acute toxicity (Dermal)
Dermal	Local effects - Long-term		
Dermal	Local effects - Acute		
Eyes	Local effects		

DN(M)ELs for the general population

Route	Type of effect	Hazard conclusion	Most sensitive endpoint
Inhalation	Systemic effects - Long-term	DNEL (Derived No Effect Level): 2.7 mg/m³	repeated dose toxicity (By inhalation)
Inhalation	Systemic effects - Acute		
Inhalation	Local effects - Long-term	DNEL (Derived No Effect Level): 2 mg/m ³	repeated dose toxicity
Inhalation	Local effects - Acute		
Dermal	Systemic effects - Long-term	DNEL (Derived No Effect Level): 0.78 mg/kg bw/day	repeated dose toxicity
Dermal	Systemic effects - Acute	DNEL (Derived No Effect Level): 1.5 mg/kg bw/day	acute toxicity (Dermal)
Dermal	Local effects - Long-term		
Dermal	Local effects - Acute		
Oral	Systemic effects - Long-term		
Oral	Systemic effects - Acute		
Eyes	Local effects		

PNEC

PNEC	Value	Assessment factor	Remarks/Justification
PNEC aqua - freshwater (mg/L)	0.256	10	Extrapolation method: assessment factor
PNEC aqua -marine water (mg /L)	N/A	N/A	

PNEC aqua - intermittent releases (mg /L)	0.118	100	Extrapolation method: assessment factor
PNEC fresh water sediment (mg/kg	N/A		
sediment dw)		N/A	
PNEC marine-sediment (mg/kg sediment	N/A	NI/A	
dw)	IN/A	N/A	
PNEC _{soil} (mg/kg soil dw)	N/A	N/A	
PNEC stp(mg/L)	177	1	Extrapolation method: assessment factor
PNEC oral(mg/kg food)	N/A	N/A	

8.2 Exposure controls

8.2.1Appropriate engineering controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility
	and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:	Goggles
Hand protection:	Glove material: Nitrile rubber. Break through time: > 480 min. Glove thickness: 0,4 mm. Camatril
	730
	Remarks: Supplementary note: The specifications are based on information and tests from similar
	substances by analogy. Due to varying conditions (e.g.temperature or other strains) it must be
	considered that the usage of a chemical protective glove in practice may be much shorter than the
	permeation time determined in accordance with EN 374. Since actual conditions of practical use
	often deviate from standardised conditions according EN 374 the glove manufacturer reccomends
	to use the chemical protective glove in practice not longer than 50% of the recomended permeation
	time. Manufacturer's directions for use should be observed because of great diversity of types .
	Suitable gloves tested according EN 374 are suppliede.g. from KCL GmbH, D-36124 Eichenzell,
	Vertrieb@kcl.de
Body protection:	Protective suit
	Protective measures: The Personal Protective Equipment must be in accordance with EN
	standards: respirator EN 136, 140, 149; safety glasses EN 166;
	protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, safety shoes EN-ISO 20345. Do not
	breathe vapours/dust. Take off all contaminated clothing immediately. Avoid contact with skin and
	eyes.
Respiratory protection:	In the case of dust or aerosol formation use respirator with an
	approved filter. P3
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure	Avoid discharge into the environment.
controls:	This material and its container must be disposed of as hazardous waste.
	According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid at 20°C and 101.3 kPa
Melting point/range (°C):	-29.5 °C at 101.3 kPa
Boiling point/range (°C):	152 °C at 101.3 kPa
Flash point (°C):	61.97 °C at 1013 hPa

315 °C at 1013 hPa
1.07 kPa at 20 °C
0.92 at 20°C
100000 mg/L at 25 °C
Log Kow (Pow): 0.63 at 20 °C
15mPa.s at 20 °C.
30.29 mN/m at 16 °C
The pKa of MEKO has been reported to be 12.45 at 24°C.
non flammable
non explosive
No Oxidising properties
Not available
Not available
Not available

Section 10 Stability and reactivity	
10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Reactions with strong acids and alkalies , Oxidizing agents
10.5 Incompatible materials:	Strong oxidizing agents, strong acids, strong bases, peroxides.
10.6 Hazardous decomposition products:	nitrogen oxides (NOx), Carbon oxides

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and d	listribution
Not available	
11.2 Information on toxicological effects	
Acute toxicity:	
LD50(Oral, Rat):	ca. 2326 mg/kg bw (male) based on: test mat.
LD50(Dermal, Rabbit):	> 1000 mg/kg bw (male/female)
LC50(Inhalation, Rat):	> 4.83 mg/L air (analytical) (male/female)
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Suspected of causing cancer< inhalation exposure>
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

Toxicity:

	Acute toxicity		Time	Species	Method	Remarks	
	LC50	> 100 mg/L	96h	Fish	OECD 203	1 (reliable without restriction)	
	EC50	ca. 201 mg/L	48h	Daphnia	OECD 202	1 (reliable without restriction)	
	EC50	11.8 mg/L based on: growth rate	72h	Algae	OECD 201	1 (reliable without restriction)	
		ca. 6.09mg/L based on:					
		biomass					
Persistence ar	nd degrad	lability: Bi	odegradati	on in water: i	nherently biode	gradable	
Bioaccumulative potential:		ot available	;				
Mobility in soil:		N	Not available				
Results of PBT&vPvB assessment:		The substance is not a PBT / vPvB substance.					
Other adverse effects:		Ne	ot available	;			
Section 13 I	Disposa	Il considerations					
13.1 Waste tr	eatment	: methods Di	spose of th	ne waste acc	ording to applic	cable local, state and federal regul	
		nc	ot dispose o	of with house	hold waste.		
13.2 Product / Packaging disposal:		5 5 - 1	Product: Dispose according to legal requirements. Packaging: Legal requirements are to be considered in regard of reuse or disposused packaging materials.				

Section 14 Transport information				
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)	
UN-Number:	Not regulated	Not regulated	Not regulated	
UN Proper shipping name:	Not regulated	Not regulated	Not regulated	
Transport hazard Class:	Not regulated	Not regulated	Not regulated	
Packaging group:	Not regulated	Not regulated	Not regulated	
Environmental hazards:	No	No	No	
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated	

Section 15 Regulation information				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
Relevant information regarding authorization:	Not applicable.			
Relevant information regarding restriction:	Not applicable.			
Other EU regulations:	Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.			
Other National regulations:	Not applicable			
Chemical Safety Assessment has been carried out?	YES X NO			
Product name: Butanone oxime				

Section 16 Other information

16.1 Indication of changes

Version 1.0 Amended by EU No 453/2010

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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