

**Product:**

**CRAYAMID® 250B-75**

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SDS No.: 218447-001 (Version 1.1)

Date 2018/08/16 (Cancel and replace : 2016/06/30)

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Identification of the mixture:** CRAYAMID® 250B-75

**Recommended use of the chemical and restrictions on use :**

**Use of the Substance/Mixture :** Resins for :, Paints, lacquers and varnishes industry

**Company/Undertaking Identification:**

Supplier

ARKEMA CHEMICALS INDIA PVT. LTD  
D – 43(1), TTC MIDC INDUSTRIAL AREA  
400706 NAVI MUMBAI, MAHARASHTRA, India  
Telefax: +9122 - 67377100

**Emergency telephone number**

**000-800-100-7141**

**+9122 67377100**

**2. HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture:**

Flammable liquid, Category 3, H226  
Oral: Acute toxicity, Category 5, H303  
Skin irritation, Category 2, H315  
Serious eye damage, Category 1, H318  
Skin sensitisation, Category 1, H317  
Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335 H336  
, Central nervous system,  
Acute aquatic toxicity, Category 3, H402  
Chronic aquatic toxicity, Category 3, H412

**Additional information:**

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2. Label elements:**

**GHS-Labeling**

Hazard pictograms:



Signal word:

**Danger**

Hazard statements:

H226 : Flammable liquid and vapour.  
H303 : May be harmful if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H317 : May cause an allergic skin reaction.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements:

**Prevention:**

- P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 : Keep container tightly closed.
- P240 : Ground and bond container and receiving equipment.
- P241 : Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 : Use non-sparking tools.
- P264 : Wash skin thoroughly after handling.
- P280 : Wear protective gloves/protective clothing/eye protection/face protection.
- P261 : Avoid breathing gas/mist/vapours/spray.
- P272 : Contaminated work clothing should not be allowed out of the workplace.
- P271 : Use only outdoors or in a well-ventilated area.
- P273 : Avoid release to the environment.

**Response:**

- P303 + P361 + P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P370 + P378 : In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist to extinguish.
- P370 + P378 : In case of fire: Use dry powder or dry sand to extinguish.
- P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302 + P352 : IF ON SKIN: Wash with plenty of water.
- P321 : Specific treatment (see supplemental instructions on the administration of antidotes on this label).
- P362+P364 : Take off contaminated clothing and wash it before reuse.
- P305 + P351 + P338 + P310 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.
- P304 + P340 + P312 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

**Storage:**

- P403 + P235 : Store in a well-ventilated place. Keep cool.
- P405 : Store locked up.

**Disposal:**

- P501 : Dispose of contents/ container to an approved waste disposal plant.

**2.3. Other hazards:**

**Potential health effects:**

- Inhalation: Slightly harmful by inhalation
- Skin contact: Slightly harmful in contact with skin

**Environmental Effects:**

- Harmful to algae.

**Physical and chemical hazards:**

- thermal decomposition into harmful products
- Decomposition products: See chapter 10

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture.

**Chemical nature of the mixture<sup>1</sup>:**

POLYAMIDE RESIN

**Hazardous components:**

Chemical name <sup>1</sup>	EC-No.	CAS-No.	Concentration	Classification
Butan-1-ol	200-751-6	71-36-3	20 - 30 %	Flam. Liq. 3; H226 Acute Tox. 4 (Oral); H302 Acute Tox. 5 (Dermal); H313 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336

**Hazardous impurities :**

Chemical name <sup>1</sup>	EC-No.	CAS-No.	Concentration	Classification
Ethylene amines - 1	203-950-6	112-24-3	1 - 5 %	Acute Tox. 4 (Dermal); H312 Acute Tox. 5 (Oral); H303 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411

<sup>1</sup>: See chapter 14 for Proper Shipping Name

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#### 4. FIRST AID MEASURES

##### 4.1. Description of necessary first-aid measures:

**General advice:**

Take off immediately all contaminated clothing (including shoes).

**Inhalation:**

Move patient from contaminated area to fresh air. Oxygen or artificial respiration if needed. In case of problems : Consult a physician.

**Skin contact:**

Wash immediately, abundantly and thoroughly with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Eye contact:**

Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.

**Ingestion:**

Do NOT induce vomiting. Call a physician or Poison Control Center immediately.

**Protection of first-aiders:**

Protective suit. In case of insufficient ventilation, wear suitable respiratory equipment.

##### 4.2. Most important symptoms/effects, acute and delayed: No data available.

##### 4.3. Indication of immediate medical attention and special treatment needed, if necessary: No data available.

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#### 5. FIREFIGHTING MEASURES

##### 5.1. Extinguishing media:

**Suitable extinguishing media:**

Water spray, Water mist, powder, foam, Carbon dioxide (CO2)

**Unsuitable extinguishing media:**

High volume water jet

##### 5.2. Specific hazards arising from the chemical:

Flammable liquid

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixtures with air.

thermal decomposition into harmful products

Irritating or toxic vapors.

Formation of toxic products through combustion:, Carbon oxides

##### 5.3. Advice for firefighters:

**Specific methods:**

In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses.

**Special protective actions for fire-fighters:**

In the event of fire, wear self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Prohibit all sources of sparks and ignition  
- Do not smoke. Avoid contact with skin. Prohibit contact with eyes. Avoid inhalation of vapours. In case of insufficient ventilation, wear suitable respiratory equipment.

##### 6.2. Environmental precautions:

Do not let product enter drains. Do not flush into surface water. Do not release into the environment. Local authorities should be advised if significant spillages cannot be contained.

##### 6.3. Methods and materials for containment and cleaning up:

**Methods for cleaning up:**

After cleaning, flush away traces with water. Recover waste water for processing later.

**Recovery:**

Shovel into suitable container for disposal. Never return spills in original containers for re-use. Absorb the remainder with an inert absorbent material (sand, vermiculite, perlite). No sparking tools should be used.

**Elimination:** See chapter 13

**6.4. Reference to other sections:** None.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

**Technical measures/Precautions:**

Storage and handling precautions applicable to products: Liquid. Flammable. Irritant even corrosive. Sensitizing. Dangerous for the environment. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths Provide water supplies near the point of use. Provide electrical earthing of equipment.

**Safe handling advice:**

Prohibit all sources of sparks and ignition - Do not smoke. Take precautionary measures against static discharges. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene measures:**

Take off immediately all contaminated clothing. Prohibit contact with eyes. Avoid contact with skin. Avoid inhalation of vapours. When using do not eat, drink or smoke.  
Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep tightly closed in a dry, cool and well-ventilated place. Store in original container. Store away from heat and ignition sources. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Avoid long storage period. Keep away from direct sunlight. Provide a catch-tank in a bunded area. Provide impermeable floor.

**Incompatible products:**

Acids Oxidizing agents

**Packaging material:**

**Recommended:** Metals

**To be avoided:** Plastic materials

**7.3. Specific end use(s):** None.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

**Exposure Limit Values**

**Butan-1-ol**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	02 2012	TWA	20	-	-

**Ethylene amines - 1**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
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### 8.2. Exposure controls:

**Appropriate engineering controls:**

Frequently monitor and control the working atmosphere.  
Provide appropriate exhaust ventilation at machinery.

**Personal protective equipment:**

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection:

Splashes:  
PVA Glove thickness: 0.2 - 0.3 mm  
According to permeation index EN 374: 6 (time elapsed > 480 mins)  
Gloves nitrile rubber Glove thickness: 0.38 mm  
According to permeation index EN 374: 2 (time elapsed > 30 mins)  
Prolonged contact:  
Viton (R) Glove thickness: 0.7 mm  
According to permeation index EN 374: 6 (time elapsed > 480 mins)  
Polyethylene Glove thickness: 0.062 mm  
According to permeation index EN 374: 6 (time elapsed > 480 mins) PE gloves being not ergonomic and not mechanically resistant, have to be used under other gloves offering a good grip and mechanical resistance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. When handling hot material, use heat resistant gloves.

Eye/face protection:  
Skin and body protection:

Safety glasses with side-shields  
Protective suit.

**Environmental exposure controls:** See chapter 6

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Appearance:**

<b>Physical state (20°C):</b>	liquid
<b>Colour:</b>	Brown.
<b>Odour:</b>	organic
<b>Olfactory threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/range:</b>	No data available.
<b>Boiling point/boiling range:</b>	No data available.
<b>Flash point:</b>	38 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	
Lower flammable limit :	1 %(V)
Upper flammable limit :	7 %(V)
<b>Vapour pressure:</b>	No data available.
<b>Vapour density:</b>	No data available.
<b>Density:</b>	0.96 g/cm <sup>3</sup> , at 20 °C
<b>Water solubility:</b>	not soluble
<b>Partition coefficient: n-octanol/water:</b>	BUTAN-1-OL : log Kow : 1 , at 25 °C (OECD Test Guideline 117) ETHYLENE AMINES - 1 : log Kow : -1.4 (calculated)
<b>Auto-ignition temperature:</b>	> 230 °C
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity, dynamic:</b>	40 - 80 Poise , at 25 °C
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

### 9.2. Other data:

**Solubility in other solvents:** Soluble in most organic solvents

## 10. STABILITY AND REACTIVITY

**10.1. Reactivity:** No data available.

**10.2. Chemical stability:**  
The product is stable under normal handling and storage conditions.

**10.3. Possibility of hazardous reactions:**  
None under normal conditions of use.

**10.4. Conditions to avoid:**  
Store protected from moisture and heat. Remove all sources of ignition.

**10.5. Incompatible materials to avoid:**  
Acids, Oxidizing agents

**10.6. Hazardous decomposition products:**  
thermal decomposition into harmful products

Irritating or toxic vapors.  
Formation of toxic products through combustion:, Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

### 11.1. Information on toxicological effects:

#### Acute toxicity:

**Inhalation:** According to its composition, can be considered as : Slightly harmful by inhalation

BUTAN-1-OL :

• In man :

At high vapour/fog concentrations :  
headache, Drowsiness, Dizziness, narcosis

• In animals :

No mortality/4 h/Rat: 17.76 mg/l (Method: OECD Test Guideline 403) (vapour)

ETHYLENE AMINES - 1 :

• In animals : vapour saturated atmosphere

4 h/Rat: Respiratory irritation, No mortality

**Ingestion:**

According to its composition : May be harmful if swallowed.

BUTAN-1-OL :

• In animals :

LD50/Rat: 2,290 mg/kg (Method: OECD Test Guideline 401)

ETHYLENE AMINES - 1 :

• In animals :

LD50/Rat: > 2,000 mg/kg

**Dermal:**

According to its composition, can be considered as : Slightly harmful in contact with skin

BUTAN-1-OL :

• In animals :

LD50/Rabbit: 3,434 mg/kg (Method: OECD Test Guideline 402)

ETHYLENE AMINES - 1 :

• In animals :

LD50/Rabbit: 550 - 805 mg/kg

#### Local effects ( Corrosion / Irritation / Serious eye damage ):

**Skin contact:**

According to its composition : Causes skin irritation.

BUTAN-1-OL :

• In man :

• In animals :

Possible dermatosis in case of prolonged and/or repeated contact.  
Mild skin irritation (OECD Test Guideline 404, Rabbit, Exposure time: 4 h)

ETHYLENE AMINES - 1 :

• In animals :

Corrosive (Reported data, Rabbit)

**Eye contact:**

According to its composition : Causes serious eye damage.

BUTAN-1-OL :

• In man :

• In animals :

Reported effects on man in industry :  
Eye irritation  
Exposure to vapours  
(0.06 mg/l)  
Severe eye irritation (OECD Test Guideline 405, Rabbit)

ETHYLENE AMINES - 1 :

• In animals :

Corrosive (Reported data, Rabbit)

#### Respiratory or skin sensitisation:

**Inhalation:**

No data available.

**Skin contact:**

According to its composition : May cause an allergic skin reaction.

ETHYLENE AMINES - 1 :

• In animals :

Skin allergy was observed., Strong sensitizing effects by skin contact. (Method: OECD Test Guideline 406 Guinea pig maximization test)

• In man :

Some cases of cutaneous sensitization reported

#### CMR effects :

**Mutagenicity:**

Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

**In vitro**

BUTAN-1-OL :

Inactive in genotoxic in vitro tests  
In vitro gene mutation study in bacteria: (Method: OECD Test Guideline 471)  
Tests for chromosome aberrations in vitro on mammalian cells: (Method: OECD Test Guideline 473)  
In vitro gene mutations test on mammalian cells: (Method: OECD Test Guideline 476)

ETHYLENE AMINES - 1 :

In vitro gene mutation study in bacteria: Active (Method: OECD Test Guideline 471)  
In vitro test for chromosomal abnormalities on CHO cells: Active (Method: OECD Test Guideline 473)

**In vivo**

BUTAN-1-OL :

Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

ETHYLENE AMINES - 1 :

Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

**Carcinogenicity:**

**Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

BUTAN-1-OL :

No data available.

ETHYLENE AMINES - 1 :

• In animals :

Absence of carcinogenic effects (Mouse, lifetime, dermal application)

**Reproductive toxicity:**

**Fertility:**

**Based on the available data, the substance is not suspected of having reprotoxic potential.**

BUTAN-1-OL :

• In animals :

May be considered as comparable to a similar product for which experimental results are:  
Repeated administration: Absence of toxic effects upon the reproductive system  
NOAEL ( Parental toxicity ): 500 mg/kg bw/day  
(Rat, By oral route)  
Reproduction Test: Absence of toxic effects on fertility  
NOAEL ( Parental toxicity ): 5,000 mg/kg bw/day  
NOAEL ( Fertility ): 5,000 mg/kg bw/day  
(female rat, drinking water)

ETHYLENE AMINES - 1 :

No data available.

**Foetal development:**

**Based on the available data, the substance is not suspected of having developmental toxicity potential.**

BUTAN-1-OL :

• In animals :

Exposure during pregnancy: No teratogenic effects, Toxic effects on foetal development, Side effects due to maternal toxicity.  
(Method: OECD Test Guideline 414, Rat)  
NOAEL ( Developmental Toxicity ): 1,454 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): 1,454 mg/kg bw/day  
(drinking water)  
NOAEL ( Developmental Toxicity ): 10.8 mg/l  
NOAEL ( Maternal Toxicity ): 10.8 mg/l  
(inhalation)

ETHYLENE AMINES - 1 :

• In animals :

Exposure during pregnancy: Absence of toxic effects for foetal development  
(Method: OECD Test Guideline 414)  
NOAEL ( Developmental Toxicity ): > 750 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): > 750 mg/kg bw/day  
(Rat, oral)  
NOAEL ( Developmental Toxicity ): > 125 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): 50 mg/kg bw/day  
(Rabbit, Dermal)

**Specific target organ toxicity :**

**Single exposure :**

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**Inhalation:**

BUTAN-1-OL :

Olfactory threshold: approximately 10 ppm  
Target organs

Central nervous system , Upper respiratory tract

- In man :
- In animals :

Inhalation of vapours : , Irritating to nasal mucous membranes (> 0.9 mg/l)

Decrease of respiratory frequency by 50 % , Mouse (3.9 - 35.0 mg/l)

ETHYLENE AMINES - 1 :

- In man :

At high vapour/fog concentrations : , Risk of irritation of respiratory system

**Repeated exposure:**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

BUTAN-1-OL :

- In animals :

By oral route: At high dose : , Central nervous system depression, Rapidly reversible effect, NOAEL= 125mg/kg bw/day (Method: OECD Test Guideline 408, Rat, 3 months)

ETHYLENE AMINES - 1 :

- In animals :

By oral route: clinical chemistry changes, Target organs: lung, LOAEL= 50 mg/kg (Rat, 6 months) (Neutralised product)

**Aspiration hazard:**

Not applicable

**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment:

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

According to available experimental data:

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**12.1. Acute toxicity :**

**Fish:**

**Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

BUTAN-1-OL :

LC50, 96 h (Pimephales promelas (fathead minnow)) : 1,376 mg/l (Method: OECD Test Guideline 203)

ETHYLENE AMINES - 1 :

LC50, 96 h (Poecilia reticulata) : 570 mg/l (Method: OECD Test Guideline 203)  
LC50, 96 h (Pimephales promelas) : 330 mg/l (Method: US EPA)

**Aquatic invertebrates:**

**Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

BUTAN-1-OL :

EC50, 48 h (Daphnia magna (Water flea)) : 1,328 mg/l (Method: OECD Test Guideline 202)

ETHYLENE AMINES - 1 :

EC50, 24 h (Daphnia magna (Water flea)) : 31.1 mg/l (Method: OECD Test Guideline 202)

**Aquatic plants:**

**From its composition, it must be considered as: Harmful to algae.**

BUTAN-1-OL :

ErC50, 96 h (Pseudokirchneriella subcapitata) : 225 mg/l (Method: OECD Test Guideline 201)

ETHYLENE AMINES - 1 :

ErC50, 72 h (Scenedesmus subspicatus) : 2.5 mg/l (Method: Standard : DIN 38412 - Part 9)

**Microorganisms:**

BUTAN-1-OL :

EC50, 17 h (Pseudomonas putida) : 4,390 mg/l (Method: Standard : DIN 38412 - Part 8, Growth rate)

ETHYLENE AMINES - 1 :

EC0, 24 h (Pseudomonas fluorescens) : 500 mg/l

**Aquatic toxicity / Long term toxicity:**

**Aquatic invertebrates:**



BUTAN-1-OL :  
NOEC, 21 d (Daphnia magna (Water flea)) : 4.1 mg/l (Method: OECD Test Guideline 211, reproduction)

ETHYLENE AMINES - 1 :  
NOEC, 21 d (Daphnia magna (Water flea)) : 1 mg/l (Method: OECD Test Guideline 202 - Part 2)

**Aquatic plants:**

BUTAN-1-OL :  
NOEC r, 96 h (Pseudokirchneriella subcapitata) : 129 mg/l (Method: OECD Test Guideline 201)

ETHYLENE AMINES - 1 :  
ErC10, 72 h (Scenedesmus subspicatus) : 0.67 mg/l (Growth inhibition)

**Non aquatic toxicity / Acute toxicity :**

**Terrestrial plants:**

BUTAN-1-OL :  
EC50, 3 d (Lactuca sativa (lettuce)) : 390 mg/l (Inhibition of germination)

**12.2. Persistence and degradability :**

**Biodegradation (In water):** **Based on the available information, it is not possible to conclude on biodegradability of this mixture.**

BUTAN-1-OL :  
Readily biodegradable: 92 % after 20 d

ETHYLENE AMINES - 1 :  
Not readily biodegradable.: 0 % after 28 d (Method: OECD Test Guideline 301 D)

**12.3. Bioaccumulative potential :**

**Bioaccumulation:** **Based on the available information, it is not possible to conclude on the bioaccumulation potential of this mixture.**

BUTAN-1-OL :  
Partition coefficient: n-octanol/water: log Kow : 1 , at 25 °C (Method: OECD Test Guideline 117)

ETHYLENE AMINES - 1 :  
Partition coefficient: n-octanol/water: log Kow : -1.4 (Method: calculated)

BUTAN-1-OL :  
Bioconcentration factor (BCF): 3.16 (Method: calculated)

**12.4. Mobility in soil - Distribution among environmental compartments:**

**Absorption / desorption:**

BUTAN-1-OL :  
log Koc: 0.54 ( Method: calculated )

**12.5. Results of PBT and vPvB assessment :**

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

**12.6. Other adverse effects:** None known.

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**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment:**

**Disposal of product:** The product should not be allowed to enter drains, water courses or the soil. Dispose of contents/ container to an approved waste disposal plant. In accordance with local and national regulations.

**Disposal of packaging:** Recycle if possible.

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**14. TRANSPORT INFORMATION**

Regulation	14.1. UN number	14.2. UN proper shipping name	14.3. Class*	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
IATA Cargo	1866	Resin solution	3	3	III	yes	
IATA Passenger	1866	Resin solution	3	3	III	yes	
IMDG	1866	RESIN SOLUTION	3	3	III	Marine pollutant	EmS Number: F-E, S-E Mark: MP

\*Description: 14.3. Transport hazard class(es)  
14.4. Packing group

14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

## 15. REGULATORY INFORMATION

Not listed	Stockholm Convention on Persistent Organic Pollutants (POPs)
Not listed	Montreal Protocol. Substances that Deplete the Ozone Layer, as amended
Not listed	Kyoto Protocol to the United Nations Framework Convention on Climate Change, Annex A, Greenhouse Gases
Not listed	Rotterdam Convention on the Prior Informed Consent (PIC) Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
Not listed	International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

### INVENTORIES:

EINECS:	Does not conform
TSCA:	Does not conform
DSL:	This product contains one or several components that are not on the Canadian DSL nor NDSL lists.
IECSC (CN):	Does not conform
ENCS (JP):	Does not conform
ISHL (JP):	Does not conform
KECI (KR):	Does not conform
PICCS (PH):	The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.
AICS:	Does not conform
NZIOC:	Does not conform

## 16. OTHER INFORMATION

### Full text of H, EUH-phrases referred to under sections 2 and 3

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)  
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)  
bw : Body weight  
food : oral feed  
dw : Dry weight

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

**NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).**



