

Safety Data Sheet

PRODUCT CODE: **KCM035**

Effective Date: December-2023

Version: 3.0

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

Identification of the substance or preparation:

Surfactant: KCM035

Company/undertaking identification:

OPT Chemicals Saudi Factory and Co.
Dammam 2nd Industrial City, 6th Street, 101 Intersection,
Postal code 34334, Kingdom of Saudi Arabia.
+966 56 917 2181

Emergency phone:

2. HAZARDS IDENTIFICATION

Main environmental hazards:

Main physical hazards:

Special precautions:

None

Physical hazard:

None

Main health hazards:

Causes severe eye irritation. Causes irritation if swallowed.
Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Conc. [wt.%]	CAS#
Butyl Ether	20-30	
Solvent	20-30	
Water	40-60	

4. FIRST AID MEASURES

Eye contact:

Immediately flush your eyes with water for 30 minutes while holding eyelids open. Seek medical attention at once.

Skin contact:

Immediately remove contaminated clothes and shoes. Wash with soap and water for 15 minutes. Seek medical attention.

Inhalation:

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.

Swallowing:

If several grams are swallowed, immediate medical is required. If delayed, consider inducing vomiting with ipecac or other means. After vomiting give 2 glasses milk or water.

Notes:

None

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Further Information:

Wear protective firefighting clothing and avoid breathing vapor. Use self-contained breathing apparatus in closed areas.

NFPA Rating:

Health 2; Flammability 2; Reactivity 0; Other: None.

Combustion products:

see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Contains dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbents (sand). Put in steel or plastic drum.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:	Keep away from heat, sparks, and flame. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.
Packaging requirements:	Uncoated phosphatized steel drum; high density polyethylene (HDPE) can for short term storage only.
Ventilation:	Provide ventilation to keep airborne concentrations below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:	None normally needed.
Eye protection:	Chemical splash goggles.
Hand protection:	Impervious gloves.
Skin protection:	Chemical resistant suit. Chemical resistant boots.
Exposure Limit Guidelines (mg/m ³)	Components having no established limits are not listed. (NE: Not established, ND: Not determined) These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV. TWA is the 8-hour time weighted average. STEL is the short-term exposure limit. "C" indicates the value is a maximum concentration (ceiling).

2-BUTOXYETHANOL:

	TWA	STEL	ANM
AUSTRALIA	120H	NE	
BELGIUM	121H	NE	
DENMARK	120H	NE	
EU	NE	NE	
FRANCE	120H	NE	
GERMANY	100HY	NE	
HOLLAND	100H	200H	
NORWAY	100H	NE	H
UNITED KINGDOM	120H	NE	

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Pleasant
pH value:	5-6
Boiling point:	171.2°C
Pour point:	-70°C
Flash point:	66°C
Method:	Pensky-Martens CC.
Flammability (explosion limits in air):	
Lower:	1.1%
Upper:	10.6%
Auto flammability (auto-ignition temperature):	240°C
Vapor pressure:	0.12kPa (25°C).
Relative density (specific gravity):	0.90-1.00
Bulk Density (solids)	Not applicable

Solubility in water:	Soluble
Viscosity:	6 mPa·s
Relative Vapor Density (air=1):	4.10
% Volatile:	100

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	None determined
Materials to avoid:	Oxidizers
Hazardous Polymerization:	Will not occur.
Dust explosion hazard (solids):	Will not occur.
Special hazards:	None
Hazardous decomposition products:	If heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact:	Irritant. May cause pain, redness, discomfort.
Skin contact:	Irritant; may cause pain, redness, dermatitis. LD50(rabbits) = 220 mg/kg.
Inhalation:	Irritant; may cause pain and coughing. Harmful if inhaled; may cause illness.
Ingestion:	Irritant; may cause pain or discomfort to mouth, throat and stomach. Harmful if swallowed large amounts may cause illness. LD50(rabbits) = 1500 mg/kg.
Carcinogenicity:	Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.
Target organs which may be affected:	None known
Sensitization:	May cause allergic reaction upon repeated skin exposure.
Other:	None

12. ECOLOGICAL INFORMATION

Information on product as a whole:	
Main environmental hazards:	None known
Degradability:	Biodegradable BOD = 1.8 p/p; COD = 2.2 p/p.
Other:	None known
Bioaccumulation and Biodegradation of the components	
Substance:	2-BUTOXYETHANOL
Log Pow:	1.1
BioDegradation;	86% (15d) - OECD 306

13. DISPOSAL CONSIDERATIONS

Product:	Dispose of by incineration (preferred) or chemical deactivation or other acceptable method in accordance with local regulations.
Container:	Sell drum to an approved drum re-conditioner or triple rinse crush and ship to sanitary landfill unless prohibited by local regulations.

14. TRANSPORT INFORMATION

UN Number:	None
IMO Description:	Not Regulated
Package Group:	
Label:	
EMS:	
Class:	
MFAG:	
IATA Description:	Not Regulated
Class:	
Sub Risk:	
Package Group:	
Label:	
ADR Description:	Not Regulated
ADR class/item:	
ADR Danger ID:	
ADR Label:	

15. REGULATORY INFORMATION

Symbols:



harmful

Risks:

R20/21/22 Harmful by inhalation, in contact with skin and of swallowed.

R37 Irritating to respiratory system.

Safety advice:

S24/25 Avoid contact with skin and eye.

Notification/restrictions status:

EUROPEAN UNION (EU):

All components of this material are on the EINECS inventory, or the components are exempt from inventory reporting.

NORWAY:

Not determined

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

16. OTHER INFORMATION

REGULATORY INFORMATION

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damage of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

*** END of SDS***

Safety Data Sheet

PRODUCT CODE: **KCM036**

Effective Date: December-2023

Version: 3.0

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

Identification of the substance or preparation:

Phase Reversible Agent: KCM036

Company/undertaking identification:

OPT Chemicals Saudi Factory and Co.
Dammam 2nd Industrial City, 6th Street, 101 Intersection,
Postal code 34334, Kingdom of Saudi Arabia.
+966 56 917 2181

Emergency phone:

2. HAZARDS IDENTIFICATION

Main environmental hazards:

Not determined

Main physical hazards:

Special precautions:

None

Physical hazard:

None

Main health hazards:

Causes severe eye irritation. Causes irritation if swallowed.
Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Conc. [wt.%]	CAS#
Butyl Ether	100%	142-96-1

4. FIRST AID MEASURES

Eye contact:

Immediately flush your eyes with water for 15minutes while holding eyelids open. Seek medical attention at once.

Skin contact:

Immediately remove contaminated clothes and shoes. Wash with soap and water for 15 minutes. Seek medical attention.

Inhalation:

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.

Swallowing:

If several grams are swallowed, immediate medical is required. If delayed, consider inducing vomiting with ipecac or other means. After vomiting give 2 glasses milk or water.

Notes:

None.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Further Information:

Wear protective firefighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA Rating:

Health 2; Flammability 2; Reactivity 0

Other:

None.

Combustion products:

see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Contains dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbent (sand). Put in steel or plastic drum.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special precautions:	Keep away from heat, sparks, and flame. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.
Packaging requirements:	Uncoated phosphatized steel drum; high density polyethylene (HDPE) can for short term storage only.
Ventilation:	Provide ventilation to keep airborne concentrations below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:	None normally needed.
Eye protection:	Chemical splash goggles.
Hand protection:	Impervious gloves.
Skin protection:	Chemical resistant suit. Chemical resistant boots.
Exposure Limit Guidelines (mg/m ³):	Components having no established limits are not listed. (NE: Not established, ND: Not determined). These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV. TWA is the 8-hour time weighted average. STEL is the short-term exposure limit. "C" indicates the value is a maximum concentration (ceiling).

2-BUTOXYETHANOL:

	TWA	STEL	ANM
AUSTRALIA	120H	NE	
BELGIUM	121H	NE	
DENMARK	120H	NE	
EU	NE	NE	
FRANCE	120H	NE	
GERMANY	100HY	NE	
HOLLAND	100H	200H	
NORWAY	100H	NE	H
UNITED KINGDOM	120H	NE	

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Pleasant
pH value:	Not applicable.
Boiling point:	171.2°C
Pour point:	-70°C
Flash point:	66°C
Method:	Pensky-Martens CC.
Flammability (explosion limits in air):	
Lower:	1.1%
Upper:	10.6%
Auto flammability (auto-ignition temperature):	240 °C
Vapor pressure:	0.12kPa(25°C)
Relative density (specific gravity):	0.85-0.95
Bulk Density (solids):	Not applicable

Solubility in water:	Soluble
Viscosity:	6 mPa·s
Relative Vapor Density (air=1):	4.10
% Volatile:	100

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	None determined
Materials to avoid:	Oxidizers
Hazardous Polymerization:	Will not occur
Dust explosion hazard (solids):	Not applicable
Special hazards:	None
Hazardous decomposition products:	If heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact:	Irritant. May cause pain, redness, discomfort.
Skin contact:	Irritant; may cause pain, redness, dermatitis. LD50(rabbits) = 220 mg/kg.
Inhalation:	Irritant; may cause pain and coughing. Harmful if inhaled; may cause illness.
Ingestion:	Irritation may cause pain or discomfort to the mouth, throat and stomach. Harmful if swallowed large amounts may cause illness. LD50(rabbits) = 1500 mg/kg.
Carcinogenicity	Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.
Target organs which may be affected:	None known.
Sensitization:	May cause allergic reaction upon repeated skin exposure.
Other	None

12. ECOLOGICAL INFORMATION

Information on product as a whole:	
Main environmental hazards:	None known
Degradability:	Biodegradable BOD = 1.8 p/p; COD = 2.2 p/p
Other:	None known
Bioaccumulation and Biodegradation of the components	
Substance	2-BUTOXYETHANOL.
Log Pow	1.1
BioDegradation	86% (15d) – OECD 306.

13. DISPOSAL CONSIDERATIONS

Product:	Dispose of by incineration (preferred) or chemical deactivation or other acceptable method in accordance with local regulations.
Container:	Sell drum to an approved drum re-conditioner or triple rinse crush and ship to sanitary landfill unless prohibited by local regulations.

14. TRANSPORT INFORMATION

UN Number:	None
IMO Description:	Not Regulated
Class:	
Package Group:	Not regulated
Label:	
EMS:	
MFAG:	
IATA Description:	Not Regulated
Class:	
Sub Risk:	
Package Group:	
Label:	
ADR Description:	Not Regulated
ADR class/item:	
ADR Danger ID:	
ADR Label:	

15. REGULATORY INFORMATION

Symbols:



Risks:	harmful R20/21/22 Harmful by inhalation, in contact with skin and of swallowed. R37 Irritating to respiratory system.
Safety advice:	S24/25 Avoid contact with skin and eyes.
Notification/restrictions status:	
EUROPEAN UNION (EU):	All components of this material are on the EINECS inventory, or the components are exempt from inventory reporting.
NORWAY:	Not determined
USA:	All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

16. OTHER INFORMATION

REGULATORY INFORMATION

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damage of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

*** END of SDS***

Safety Data Sheet

PRODUCT CODE: **KCM043**

Effective Date: December-2023

Version: 3.0

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

Identification of the substance or preparation:

Defoamer and Anti-foaming Agent: KCM043

Company/undertaking identification:

OPT Chemicals Saudi Factory and Co.
Dammam 2nd Industrial City, 6th Street, 101 Intersection,
Postal code 34334, Kingdom of Saudi Arabia.
+966 56 917 2181

Emergency phone:

2. HAZARDS IDENTIFICATION

Main environmental hazards:

None known

Main physical hazards:

Special precautions:

None

Physical hazard:

Water slick, explosive dust.

Main health hazards:

May be mildly irritating to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:	Conc. [wt.%]	CAS#
Organic Silicone	70-90	-
Water	10-30	7732-18-5

4. FIRST AID MEASURES

Eye contact:

Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention at once.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air.

Swallowing:

Rinse mouth with water, seek medical attention if irritating.

5. FIRE-FIGHTING MEASURES

Flammable properties:

Flash point:

>93°C

Auto-ignition temperature:

Not available

Flammable limits:

LFL:

Not applicable

UFL:

Not applicable

Extinguishing media:

Small fire:

Using DRY chemical powder.

Large fire:

Using water spray, fog or foam, do not use water jet.

NFPA Rating:

Health 1; Flammability 1; Reactivity 0; other 0.

6. ACCIDENTAL RELEASE MEASURES

Small spill:

Contain with dikes, sweep up and place in a closed container for disposal. Soak residue with inert absorbant (sand).

Large spill:

Evacuate area of nonessential personnel. Contain spill with dikes and put into drums for proper disposal.

7. HANDLING AND STORAGE

Special precautions:

Avoid freezing. Contain in HDPE plastic drums. No further precaution required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

None normally required.

Eye protection:

Chemical splash goggles.

Hand protection:

Not required.

Skin protection:

Clean, body-covering clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Emulsion

Color:

White

Odor:

Mild

Vapor Pressure:

4 KPa

pH:

6-8

Relative density (specific gravity):

0.92-1.12

Ignition temperature:

Not available

Explosion limits:

Not determined

Lower:

Not available

Upper:

Not available

Boiling point:

>93°C

Freezing point:

0°C

Flash point:

>93°C

Melting point:

Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of storage and handling.

Instability temperature:

Not available

Conditions of Instability:

Not available

Materials to avoid:

Avoid oxidizing agents.

Corrosivity:

Not available

Special remarks on reactivity:

Not available

Hazardous polymerization:

Will not occur.

Decomposition hazard:

silicon oxide when burned strongly, May release carbon dioxide or harmful organic fumes.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Cause irritation

Skin contact:

No effect expected.

Sensitization:

This material is not expected to be a skin sensitizer. This material is not expected to be a skin absorption hazard.

Ingestion:

No significant effects are expected.

Inhalation:

No effects expected.

Remarks:

Not available

Carcinogenicity/Mutagenicity:

This product is not considered to be a human or animal carcinogen.

Teratogenicity/Reproductive Toxicity:

This product is not known to cause teratogenicity or reproductive toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Not available
Biodegradability:	Not determined
Special Remarks on the Products of Biodegradation:	Not available

13. DISPOSAL CONSIDERATIONS

Waste information:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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14. TRANSPORT INFORMATION

The preparation is not classified as dangerous goods:	
Proper shipping name:	None
Hazard class:	N/A
Packing group:	N/A
Identification number:	Not regulated

15. REGULATORY INFORMATION

Hazard symbols:	-
Risk phrases:	This product is not classified according to the EU regulations.
Safety phrases:	No specific safety phrase has been found applicable for this product.
US Regulations	
TSCA:	All ingredients are on the TSCA inventory.

16. OTHER INFORMATION**REGULATORY INFORMATION**

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

*** END of SDS***