

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 7/7/2014 Revision date: 4/25/2024 Supersedes version of: 3/21/2022 Version: 9.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : KMS SOLUTION 18%

Product code : KMSS18

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

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Murphy and Son Ltd

Alpine Street

Old Basford Nottingham, Nottinghamshire NG6 0HQ

UK

T +44 115 978 5494

technical@murphyandson.co.uk, www.murphyandson.co.uk

#### 1.4. Emergency telephone number

Emergency number : +115 978 5494

Office Hours Only

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 4

Skin corrosion/irritation, Category 1, Sub-Category 1B

H314

Serious eye damage/eye irritation, Category 1

H318

Hazardous to the aquatic environment – Chronic Hazard,

Category 3

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage.

# 2.2. Label elements

Precautionary statements (CLP)

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05 GHS07

Signal word (CLP) : Danger

Contains : SULPHUR DIOXIDE; POTASSIUM METABISULPHITE Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

H332 - Harmful if inhaled.

H412 - Harmful to aquatic life with long lasting effects.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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P273 - Avoid release to the environment.

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

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.
P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P405 - Store locked up.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

: EUH031 - Contact with acids liberates toxic gas.

#### 2.3. Other hazards

**EUH-statements** 

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POTASSIUM METABISULPHITE	CAS-No.: 16731-55-8 EC-No.: 240-795-3 REACH-no: 01-2119537422- 45	15 – 30	Eye Dam. 1, H318 Aquatic Chronic 3, H412
SULPHUR DIOXIDE	CAS-No.: 7446-09-5 EC-No.: 231-195-2 EC Index-No.: 016-011-00-9	15 – 30	Press. Gas Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a

physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not

breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

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# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

SULPHUR DIOXIDE (7446-09-5)		
United Kingdom - Occupational Exposure Limits		
Local name	Sulphur dioxide	
WEL TWA (OEL TWA)	1.3 mg/m³	
	0.5 ppm	
WEL STEL (OEL STEL)	2.7 mg/m³	
	1 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

# Personal protective equipment symbol(s):









## 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	Plastic	EN 166

# 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

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Hand protection	land protection				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Chloroprene rubber (CR), Butyl rubber	6 (> 480 minutes)			EN ISO 374-1

#### Other skin protection

#### Materials for protective clothing:

Wear protective clothing

Other skin protection Materials for protective clothing		
Condition	Material	Standard
		EN 14605

## 8.2.2.3. Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
Reusable half mask	Type P1, ABEK-P3	Gas protection	EN 143

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour : Colourless.

Odour Sulphur Dioxide (SO2).
Odour threshold : No data available

pH : ≈ 5.5

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available. Freezing point : No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature : Not applicable. : No data available Decomposition temperature Flammability (solid, gas) : Not applicable : No data available Vapour pressure : No data available. Relative vapour density at 20°C Relative density 1.2 - 1.25Solubility : No data available Partition coefficient n-octanol/water (Log Pow) No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties : No data available

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Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

**KMS SOLUTION 18%** 

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

POTASSIUM METABISULPHITE (16731-	-55-8
ATE CLP (dust,mist)	

	OTASSIUM METABISULPHITE (16731-55-8)		
	LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:	
	LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
		> 5.5 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	

Skin corrosion/irritation : Causes severe skin burns.

pH: ≈ 5.5

2.778 mg/l/4h

pH 3.8 – 4.6

Serious eye damage/irritation : Causes serious eye damage

pH: ≈ 5.5

: Not classified

# POTASSIUM METABISULPHITE (16731-55-8)

Respiratory or skin sensitisation

pH 3.8 – 4.6

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

# POTASSIUM METABISULPHITE (16731-55-8)

Viscosity, kinematic Not applicable

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

POTASSIUM METABISULPHITE (16731-55-8)	
LC50 - Fish [1]	464 – 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	89 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'

# 12.2. Persistence and degradability

MS SOLUTION 18%	
Persistence and degradability	Not rapidly degradable
SULPHUR DIOXIDE (7446-09-5)	
Persistence and degradability	Not rapidly degradable
POTASSIUM METABISULPHITE (16731-55-8)	
Persistence and degradability  Not rapidly degradable	

# 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
UN 2693	UN 2693	UN 2693	UN 2693	UN 2693		
14.2. UN proper shippin	g name					
BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE)	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE)	Bisulphites, aqueous solution, n.o.s. (SULPHUR DIOXIDE)	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE)	BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE)		
Transport document descr	iption					
UN 2693 BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE), 8, III, (E)	UN 2693 BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE), 8, III	UN 2693 Bisulphites, aqueous solution, n.o.s. (SULPHUR DIOXIDE), 8, III	UN 2693 BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE), 8, III	UN 2693 BISULPHITES, AQUEOUS SOLUTION, N.O.S. (SULPHUR DIOXIDE), 8, III		
14.3. Transport hazard	class(es)					
8	8	8	8	8		
8	8	8	8	8		
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental hazards						
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No		
No supplementary information	n available	1		1		

# 14.6. Special precautions for user

## **Overland transport**

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions : TP1, TP28

(ADR)

Tank code (ADR) : L4BN
Tank special provisions (ADR) : TU42
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80

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Orange plates : 80

2693

Tunnel restriction code (ADR) : E EAC code : 2X

Transport by sea

: 274 Special provisions (IMDG) Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : P001, LP01 Packing instructions (IMDG) : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP1, TP28 : F-A EmS-No. (Fire) : S-B EmS-No. (Spillage) Stowage category (IMDG) : A Stowage and handling (IMDG) SW2 Segregation (IMDG) **SG35** 

Properties and observations (IMDG) : Liquid with a pungent odour. Reacts with acids, evolving sulphur dioxide, a toxic gas.

Causes burns to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) Y841 PCA limited quantity max net quantity (IATA) 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) · 51 CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A803 ERG code (IATA) : 8L

#### **Inland waterway transport**

Classification code (ADN) : C1
Special provisions (ADN) : 274
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : C1
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions : TP1, TP28

(RID)

Tank codes for RID tanks (RID) : L4BN Special provisions for RID tanks (RID) : TU42 Transport category (RID) : 3 Special provisions for carriage – Packages (RID) : W12 Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 80

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

# Not applicable

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#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Indication of changes				
Section	Changed item	Change	Comments	
2.1				

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	

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Abbreviations and acronyms:		
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
EUH031	Contact with acids liberates toxic gas.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H331	Toxic if inhaled.	

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Full text of H- and EUH-statements:	
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.