

SAFETY DATA SHEET

Prepared to Regulation (EC) No. 1907/2006

Kevin Murphy TOUCHABLE (EU)

SDS Revision: 3.0

SDS Revision Date: 22May20


SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1	Product Identifier:	Kevin Murphy TOUCHABLE (EU)
	Product Code:	18-0365D
1.2	Relevant Identified Uses:	Personal Care - Aerosol Hair Styling Product
	Uses Advised Against:	None known
1.3	Supplier of Safety Data Sheet:	Kevin Murphy Europe A/S
		Refshalevej 163A, DK-1432 Copenhagen K
		+45 20 20 34 56 larsb@kevinmurphy.com.au
1.4	Emergency Telephone Number:	CHEMTEL: 1-800-255-3924 (North America) +1-813-248-0585 (International)

This document is written for the packaged product (aerosol can containing propellant) with references to the dispensed or unpackaged product (liquid) to identify hazards as necessary.

SECTION 2: Hazards Identification

The mixture has been assessed for its physical, health and environmental hazards, and the following classification applies.

2.1	Classification of the Substance or Mixture:	Physical Hazards: Flammable Aerosol - Category 1 Health Hazards: Not Classified Environmental Hazards: Not Classified	
2.2	Labeling Elements:	Hazard Signal Word: Danger Hazard Statements: H222: Extremely Flammable Aerosol. H229: Pressurized container: May burst if heated. Precautionary Statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P102: Keep out of reach of children. P103: Read label before use.	Hazard Pictograms: 
2.3	Other Hazards:	No known other hazards which do not result in classification. Mixture does not meet the criteria for PBTs or vPvBs in accordance to Regulation (EC) No. 1907/2006, Annex XIII.	

SECTION 3: Composition / Information on Ingredients

3.2 Mixtures:					
CHEMICAL NAME	CAS No.	EC No.	Hazard Classification	Hazard Statements	% by Weight
Ethanol	64-17-5	200-578-6	Flammable Liquid, Category 2 Eye Irritation, Category 2A	H225: Highly flammable liquid and vapour H319: Causes serious eye irritation	40 - 50
Dimethyl Ether	115-10-6	204-065-8	Flammable Gas, Category 1	H220: Extremely flammable gas	35 - 45
Silica, Amorphous (1)	7631-86-9	231-545-4	Not applicable	Not applicable	< 1

(1) Substance with a workplace exposure limit.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as physical, health or the environmental hazards, are PBTs or vPvBs, or have been assigned an occupational exposure limit within EU OEL Directives, and hence require reporting in this section.

SECTION 4: First Aid Measures

4.1	Description of First Aid Measures:	Ingestion: Not a likely route of exposure due to the form of the product. Eyes: In case of eye contact, flush with copious amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention in the event of an adverse reaction or if symptoms persist. Skin: If signs of irritation to the skin develop, wash the affected area with plenty of water and soap. Seek medical attention in the event of an adverse reaction or if symptoms persist. Inhalation: If respiratory distress or irritation occurs, remove victim to fresh air. Seek medical attention in the event of an adverse reaction or if symptoms persist.
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4.2	Most Important Symptoms and Effects, Both Acute and Delayed:	No known symptoms when used as intended. Intentional misuse by deliberately concentrating and inhaling the contents may cause nausea, vomiting, and signs of central nervous system depression (headache, dizziness, and drowsiness), and rapid suffocation by displacing oxygen.
4.3	Indication of Immediate Medical Attention and Special Treatment Needed:	Provide general supportive measures and treat symptomatically. No known specific antidotes.

SECTION 5: Firefighting Measures

5.1	Extinguishing Media:	<u>Suitable Extinguishing Media:</u> Water mist, dry chemical, alcohol resistant foam, or carbon dioxide. <u>Unsuitable Extinguishing Media:</u> None known.
5.2	Special Hazards Arising from the Substance or Mixture:	Danger! Extremely Flammable Aerosol: Vapours may burn or form explosive mixture with air. Pressurized container: May burst if heated. May produce oxides of carbon and/or nitrogen on combustion.
5.3	Advice for Firefighters:	Wear self-contained breathing apparatus and full personal protective gear. Use standard firefighting procedures.

SECTION 6: Accidental Release Measures

6.1	Personal Precautions, Protective Equipment and Emergency Procedures:	Observe all personal protection equipment recommendations described in Section 8. Remove all sources of ignition and ensure adequate ventilation. Ventilate closed spaces before entering them. Keep unnecessary personnel away.
6.2	Environmental Precautions:	Dike or contain spill to prevent from entering drains. Avoid direct release to drains, surface and ground water.
6.3	Methods and Material for Containment and Cleaning Up:	Clean up spill with non-combustible absorbent material. Clean area to prevent a slip hazard. Use non-sparking tools and equipment. Take action to prevent static discharges.
6.4	Reference to Other Sections:	For personnel protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and Storage

7.1	Precautions for Safe Handling:	Pressurized container. Do not pierce or burn, even after use. Utilize safe handling and transportation techniques to avoid puncture of the container. Do not use if spray button is missing or defective. Do not spray on open flame or other ignition source. Ensure adequate ventilation in the workplace. Do not re-use containers. Avoid direct eye contact. Wear appropriate personal protective equipment (see Section 8). Do not smoke while using or until sprayed surface is thoroughly dry. Do not eat or drink while handling. Wash hands thoroughly after handling. Observe good hygiene practices.
7.2	Conditions for Safe Storage, Including Any Incompatibilities:	Pressurized container: May burst if heated. Store in a cool, dry, and well-ventilated area away from direct sunlight. Do not expose to temperatures exceeding 50°C/122°F. Do not store near heat, hot surfaces, sparks, open flames and other ignition sources. Store away from incompatible materials (see Section 10).
7.3	Specific End Use(s):	No further relevant information available.

SECTION 8: Exposure Controls / Personal Protection

Control parameters have been published by the referenced authority to establish exposure limits in the work environment. Employee work areas should be monitored to ensure that permissible limits are not exceeded during the work day.

8.1	Control Parameters:	Component Name	CAS No.	Occupational Exposure Limits (OEL)			
				Reference	Type	ppm	mg/m ³
		Dimethyl Ether	115-10-6	European Union, IOELV Directives	TWA	1000	1920
				Austria, OEL Regulation	MAK	1000	1910
				Belgium, OEL Values	TWA	1000	1920
				Bulgaria, OEL Regulation No 13	TWA	1000	1920
				Croatia, ELV Narodne Novine	MAC	1000	1920
				Cyprus EL Regulation	TWA	1000	1920
				Czech Republic, OEL Decree 361	TWA	NE	1000
				Denmark, Limit Values Executive Order	TLV	1000	1920
				Estonia, OEL Regulation	TWA	1000	1920

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		Ethanol	64-17-5	Poland, OEL Ordinance	TWA	NE	1800				
				Romania, OEL Law	TWA	778	1400				
				Spain, OEL INSHT	TWA	1000	NE				
				Austria, OEL Regulation	MAK	1000	1900				
				Belgium, OEL Values	TWA	1000	1907				
				Bulgaria, OEL Regulation No 13	TWA	NE	1000				
				Croatia, ELV Narodne Novine	MAC	1000	1900				
				Czech Republic, OEL Decree 361	TWA	NE	1000				
				Denmark, Limit Values Executive Order	TLV	1000	1900				
				Estonia, OEL Regulation	TWA	500	1000				
				Finland, OEL Decree	TWA	1000	1900				
				France, VLEP INRS	VME	1000	1900				
				Germany, DFG MAK	TWA	500	960				
				Germany, AGS TRGS	AGW	500	960				
				Greece, OEL Decree	TWA	1000	1900				
				Hungary, OEL Decree	TWA	NE	1900				
				Ireland, OEL Regulation	STEL	1000	NE				
				Latvia, OEL Regulation	TWA	NE	1000				
				Lithuania, IPRV	TWA	500	1000				
				Netherlands, OEL SER	TWA	NE	260				
				Poland, OEL Ordinance	TWA	NE	1900				
				Portugal, OEL Standard NP 1796	TWA	1000	NE				
				Romania, OEL Law	TWA	1000	1900				
				Slovakia, OEL Regulation	TWA	500	960				
				Slovenia, OEL Regulation	TWA	1000	1900				
				Spain, OEL INSHT	STEL	1000	1910				
				Sweden, OELV AFS	TWA	500	1000				
				United Kingdom, WEL	TWA	1000	1920				
						Silica, Amorphous	7631-86-9	Austria, OEL Regulation	MAK	NE	4
								Belgium, OEL Values	TWA	NE	10
								Denmark, Limit Values Executive Order	TLV	NE	2
								Finland, OEL Decree	TWA	NE	5
								Germany, DFG MAK	TWA	NE	4
		Germany, AGS TRGS	AGW	NE	4						
		Ireland, OEL Regulation	TWA	NE	6						
		Latvia, OEL Regulation	TWA	NE	1						
		United Kingdom, WEL	TWA	NE	6						
	Recommended Monitoring Procedures:	Workplace atmospheric monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference monitoring standards, such as European Standards EN 689 and EN 482. Reference national guidance documents for methods for the determination of hazardous substances.									
	Biological Limit Values:	No biological exposure limits noted for the ingredients.									
	Derived No Effect Level (DNEL):	Not available									
	Predicted No Effect Concentrations (PNEC):	Not available									
8.2	Exposure Controls:										
	Appropriate Engineering Controls:	Provide adequate ventilation in the workplace to maintain airborne levels below recommended exposure limits.									
	Eye/Face Protection:	Avoid eye contact. Wear protective eyewear (e.g., safety glasses with side-shield) if eye contact hazards exist in the workplace.									
	Skin and Hand Protection:	No special skin protection is required during consumer product use. If anticipated that prolonged or repeated skin contact will occur in the workplace, wear impermeable gloves and suitable protective clothing.									
	Respiratory Protection:	If airborne exposure limits are exceeded, wear suitable respirator that meets current occupational health and safety standards.									
	Thermal Hazards:	Refer to Section 5 for fire personal protective equipment.									
	Hygiene Measures:	Do not eat, drink or smoke during product use or handling. Wash hands after handling. Observe good personal hygiene measures. Routinely wash work clothing and protective equipment.									

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Environmental Exposure Controls:	Environmental manager must be informed of all major releases.
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SECTION 9: Physical and Chemical Properties

9.1	Information on Basic Physical and Chemical Properties:
	Appearance: Colorless, hazy liquid; aerosol spray
	Odor: Fragrance
	Odor Threshold: No data available on this product
	pH: No data available on this product
	Melting Point: Not applicable due to form of product
	Freezing Point: No data available on this product
	Initial Boiling Point/Boiling Range: Dimethyl Ether: -25°C (-13°F); Ethanol: 78.2°C (173°F)
	Flashpoint: Dimethyl Ether: -41°C (-42°F) closed cup; Ethanol: 13°C (55°F): closed cup
	Evaporation Rate: No data available on this product
	Flammability (solid, gas): No data available on this product
	Upper/Lower Flammability or Explosive Limits: UEL: 27.0% (Dimethyl Ether), 19.0% (Ethanol) LEL: 3.4% (Dimethyl Ether), 3.3% (Ethanol)
	Vapor Pressure: 40 - 60 psig @ 21°C (70°F)
	Vapor Density: No data available on this product
	Relative Density (water=1.0): 0.823 - 0.843
	Solubility (in water): No data available on this product
	Partition Coefficient (n-octanol/water): Ethanol: -0.31 Log K _{ow} Dimethyl Ether: 0.10 Log K _{ow}
	Autoignition Temperature: No data available on this product
	Decomposition Temperature: No data available on this product
	Viscosity: No data available on this product
	Explosive Properties: No data available on this product
	Oxidizing Properties: No data available on this product
9.2	Other Information: No relevant additional information available on this product.

SECTION 10: Stability and Reactivity

10.1	Reactivity:	The product is not reactive under normal conditions of use, storage and transport.
10.2	Chemical Stability:	The product is stable under normal handling and storage conditions.
10.3	Possibility of Hazardous Reactions:	No hazardous reactions known under conditions of normal use. Hazardous polymerization is not expected.
10.4	Conditions to Avoid:	Direct sunlight, extremely high or low temperatures, sparks, open flame, and other ignition sources.
10.5	Incompatible Materials:	Strong acids, bases, and oxidizing agents.
10.6	Hazardous Decomposition Products:	No hazardous decomposition products are known. May produce oxides of carbon and/or nitrogen on combustion.

SECTION 11: Toxicological Information

11.1	Information on Toxicological Effects:	No data available on the mixture. Health effects of the mixture are derived from ingredient literature review, concentrations present, and in accordance with EU Regulation (EC) No. 1272/2008 [CLP/GHS]. If available, relevant toxicological properties of the components that contribute to classification of the mixture in Section 3 are provided. Evaluations for the mixture may be based on additional information not shown. The product uses ingredients presented herein from suppliers that have not tested the ingredients on animals for cosmetic purposes since the 11-March-2009 time table set forth by the EU Commission in accordance with EU Cosmetic Directive (EC) No. 1223/2009.
	Potential Acute Health Effects and	Eye Exposure: No adverse effects expected from normal use. Spraying directly in the eyes may cause slight, transient discomfort/irritation.

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	<p>Skin Exposure: No adverse effects expected from normal use. Prolonged or repeated skin exposure may cause defatting, drying and cracking of the skin.</p> <p>Ingestion: Not a likely route of exposure due to the form of the product. May cause gastrointestinal discomfort/irritation if swallowed.</p> <p>Inhalation: No adverse effects expected from normal use. Intentional misuse by deliberately concentrating and inhaling the contents may cause nausea, vomiting, and signs of central nervous system depression (headache, dizziness, and drowsiness), and rapid suffocation by displacing oxygen.</p>
Potential Chronic Health Effects:	None known
Acute Toxicity:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met.</p> <p>Ethanol: CAS 64-17-5 Oral LD50: 7060 mg/kg (Rat) Dermal LD50: 20,000 mg/kg (Rabbit) Inhalation LC50: > 60,000 ppm (114 mg/L), 1 hour (Mouse)</p> <p>Dimethyl Ether: CAS 115-10-6 Oral Toxicity: Study technically not feasible Dermal Toxicity: Study technically not feasible Inhalation LC50: 164,000 ppm (309 mg/L), 4 hours (Rat)</p>
Skin Corrosion/Irritation:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met.</p> <p>Ethanol: CAS 64-17-5 Acute Dermal Irritation/Corrosion, OECD 404, Rabbit: Not irritating Modified Draize 1944 for Human Repeat Occluded (95% active): Slightly irritating under extreme repeat dose situations</p> <p>Dimethyl Ether: CAS 115-10-6 Study technically not feasible</p>
Serious Eye Damage/Irritation:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met.</p> <p>Ethanol: CAS 64-17-5 Acute Eye Irritation/Corrosion, OECD 405, Rabbit (100% active): eye irritant (Category 2A) Draize Eye Irritation, Rabbit (25-50% active): Non-irritating</p> <p>Dimethyl Ether: CAS 115-10-6 Study technically not feasible</p>
Respiratory or Skin Sensitization:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met.</p> <p>Ethanol: CAS 64-17-5 Respiratory Sensitization: No reports of human respiratory sensitization Skin Sensitization: No skin sensitization evident in animal studies at 75% concentration.</p> <p>Dimethyl Ether: CAS 115-10-6 Respiratory Sensitization: No evidence of respiratory sensitization during inhalation exposures. Skin Sensitization: Study technically not feasible</p>
Germ Cell Mutagenicity:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met. No components at levels greater than or equal to 0.1% are listed as a mutagen in EU Regulation (EC) No. 1272/2008 [CLP].</p> <p>Ethanol: CAS 64-17-5 <i>In-vitro</i>: Negative for bacterial reverse mutation test (OECD 471) in Salmonella typhimurium up to maximum plate concentration of 10 mg/plate, with and without metabolic activation</p> <p>Dimethyl Ether: CAS 115-10-6 <i>In-vitro</i>: Negative for bacterial reverse mutation test (OECD 471) in Salmonella typhimurium and Escherichia coli, with and without metabolic activation <i>In-vivo</i>: Negative up to 3% (30,000 ppm) concentration for sex-linked recessive lethal mutations in Drosophila melanogaster</p>
Carcinogenicity:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met. No components at levels greater than or equal to 0.1% are listed as a human carcinogen in EU Regulation (EC) No. 1272/2008 [CLP].</p> <p>Dimethyl Ether: CAS 115-10-6 Combined Chronic Toxicity/Carcinogenicity, OECD 453, Rat, Inhalation: Not carcinogenic</p>
Reproductive Toxicity:	<p>Product Summary/Conclusion: Based on available data, classification criteria are not met. No components at levels greater than or equal to 0.1% are listed as a reproductive toxin in EU Regulation (EC) No. 1272/2008 [CLP].</p> <p>Ethanol: CAS 64-17-5 Two-Generation Reproduction Toxicity, OECD 416, Mouse, Oral: NOAEL 15% (20.7g/kg/day) (highest concentration tested)</p>

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		Prenatal Developmental Toxicity, OECD 414, Rat, Inhalation: NOAEL (maternal toxicity) 16,000 ppm, NOAEL (teratogenicity) \geq 20,000 ppm (highest concentration tested)
		Dimethyl Ether: CAS 115-10-6 Chronic Toxicity, OECD 452, Rat, Inhalation: NOAEL 25,000 ppm (highest concentration tested) - No adverse effects on reproductive organs or tissues Prenatal Developmental Toxicity, OECD 414, Rat: NOAEL (maternal systemic effects) 1250 ppm, NOAEL (fetal developmental effects) 40,000 ppm
	STOT-Single Exposure:	Based on available data, classification criteria are not met.
	STOT-Repeated Exposure:	Product Summary/Conclusion: Based on available data, classification criteria are not met. Ethanol: CAS 64-17-5 90-Day Oral Toxicity, Mouse: NOAEL > 9400 mg/kg (total dose), LOAEL 9700 mg/kg Repeated Dose Inhalation Toxicity, Rat, 4 weeks (6 hours/day, 5 days/week): NOAEC \geq 6130 ppm
		Dimethyl Ether: CAS 115-10-6 Chronic Toxicity, OECD 452, Rat, Inhalation: NOAEL 47106 mg/m ³
	Aspiration Hazard:	Not classified due to form of the product.
	Other Information:	No other relevant information available.

SECTION 12: Ecological Information

12.1	Toxicity:	Product Summary/Conclusion: Based on available data, classification criteria are not met. No data available on the mixture. Environmental toxicity of the mixture derived from ingredient information, concentrations present and in accordance with EU Regulation (EC) No. 1272/2008 [CLP/GHS]. Ethanol: CAS 64-17-5 Aquatic Plants EC50: 275 mg/L, 72 hours (Chlorella vulgaris: fresh water algae) Crustacea LC50: 12,340 mg/L, 48 hours (Daphnia magna); EC50: 23,874 mg/L, 24 hours (Artemia salina) Fish LC50: > 10,000 mg/L, 96 hours (rainbow trout); > 13,400 mg/L, 96 hours (fathead minnow) Dimethyl Ether: CAS 115-10-6 Aquatic Plants EC50: 154.9 mg/L, 96 hours, ECOSAR Calculation (Green Algae) Crustacea EC50: > 4400 mg/L, 48 hours (Daphnia magna) Fish LC50: > 4100 mg/L, 96 hours (Poecilia reticulata)
12.2	Persistence and Degradability:	Ethanol: CAS 64-17-5 Readily biodegradable Dimethyl Ether: CAS 115-10-6 OECD 301D (closed bottle test): Not readily biodegradable
12.3	Bioaccumulative Potential:	
	Partition Coefficient: n-octanol/water	Ethanol (CAS 64-17-5): -0.31 (log K _{ow}) Dimethyl Ether (CAS 115-10-6): 0.10 (log K _{ow})
	Bioconcentration Factor (BCF):	Not available
12.4	Mobility in Soil:	Not available
12.5	Results of PBT and vPvB Assessment:	Not available
12.6	Other Adverse Effects:	No other known adverse environmental effects or critical hazards.

SECTION 13: Disposal Considerations

13.1	Waste Treatment Methods:	
	Waste Disposal:	Dispose of waste material and containers in accordance with appropriate local, regional, and national regulations. Do not dispose through sewage. Empty containers should be taken to an approved waste handling site for recycling or disposal.
	Special Precautions:	Empty container may retain product residue. Observe all precautions for ignitable waste and pressurized container.






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SECTION 14: Transport Information						
Shipment in Consumer Packaging - Limited Quantity		ADR (Road)	RID (Rail)	ADN (Waterways)	IMDG (Sea)	IATA (Air)
14.1	UN Number:	UN1950	UN1950	UN1950	UN1950	UN1950
14.2	UN Proper Shipping Name:	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable	Aerosols	Aerosols, flammable
14.3	Transport Hazard Classes:	2.1 	2.1 	2.1 	2.1 	2.1 
14.4	Packing Group:	None	None	None	None	None
14.5	Environmental Hazards:	None	None	None	None	None
14.6	Special Precautions for User:	Transport within user's premises: Transport in closed containers that are upright and secure. Read SDS and emergency procedures before handling.				
14.7	Transport in Bulk According to Annex II of Marpol and the IBC Code:	Not applicable				

SECTION 15: Regulatory Information	
15.1	<p>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:</p> <p>EU Regulation (EC) No. 1907/2006 REACH Article 59(10) and Annexes XIV and XVII, as amended : No components in this product are listed.</p> <p>EU Directive 2012/18/EU on major accident hazards involving dangerous substances: Dimethyl Ether (CAS 115-10-6), Ethanol (CAS 64-17-5)</p> <p>EU Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended: No components in this product are listed.</p> <p>EU Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I, as amended: No components in this product are listed.</p> <p>EU Regulation (EC) No. 649/2012 concerning export/import of dangerous chemicals, Annex I (parts 1 - 3) & Annex V, as amended: No components in this product are listed.</p> <p>EU Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry: No components in this product are listed.</p> <p>National Regulations of EU Member States: Follow national regulations for work with chemical agents.</p> <p>German Water Hazard Class (WGK) for Mixture: WGK 1</p>
15.2	<p>Chemical Safety Assessment:</p> <p>No Chemical Safety Assessment has been carried out.</p>

SECTION 16: Other Information	
Legend to Abbreviations:	ADN: European Agreement Concerning International Carriage of Dangerous Goods by Inland Waterways
	ADR: European Agreement Concerning International Carriage of Dangerous Goods by Road
	AFS: Work Environment Provisions
	AGS: Committee on Hazardous Substances
	AGW: Occupational Limit Values
	CAS: Chemical Abstracts Service
	CLP: Classification, Labelling and Packaging of Substances and Mixtures (EC No. 1272/2008)
	DFG: Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (known as the MAK Commission)
	EC: European Commission
	EC50: Effective Concentration, 50%
	EL: Exposure Limits
	ELV: Exposure Limit Values
	EU: European Union
	GHS: Globally Harmonized System of Classification and Labelling Chemicals
	IATA: International Air Transport Association
	IBC: Intermediate Bulk Container
	IOELV: Indicative Occupational Exposure Limit Values
	IMDG: International Maritime Dangerous Goods

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	INRS: The French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases
	INSHT: National Institute for Occupational Safety and Health
	IPRV: Long Term Exposure Limit Value
	LC50: Lethal Concentration, 50%
	LD50: Lethal Dose, 50%
	LOAEL: Lowest Observed Adverse Effect Level
	Log K _{ow} : Logarithm of the n-octanol/water partition coefficient
	MAC: Maximum Workplace Concentrations
	MAK: Maximum Workplace Concentrations
	NE: Not Established
	NOAEC: No Observed Adverse Effect Concentration
	NOAEL: No Observed Adverse Effect Level
	OECD: Organisation for Economic Co-operation and Development
	OEL: Occupational Exposure Limit
	OELV: Occupational Exposure Limit Value
	PBT: Persistent, Bioaccumulative, and Toxic
	vPvB: very Persistent and very Bioaccumulative
	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID: Regulations Concerning International Carriage of Dangerous Goods by Rail
	SER: Social and Economic Council of the Netherlands
	STEL: Short Term Exposure Limits
	STOT: Specific Target Organ Toxicity
	TLV: Threshold Limit Value
	TRGS: Technical Rules for Hazardous Substances
	TWA: Time Weighted Average
	UN: United Nations
	VLEP: Occupational Exposure Limit Values
	VME: Limit Value of Average Exposure
	WEL: Workplace Exposure Limits
Evaluation Methods Used for Classification of the Mixture According to EU Regulation (EC) No. 1272/2008: Calculation method	
Training Advice:	It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.
Disclaimer:	This Safety Data Sheet is intended to provide a brief summary of our knowledge and guidance regarding the use of this product. The information set forth herein has been compiled from sources considered to be reliable and is believed to be accurate as of the date of publication. This information is offered in good faith by Kevin Murphy Business Services Pty Ltd and the accuracy, suitability or completeness is not guaranteed, and no warranties of any type, either expressed or implied, are provided. If this product is combined with other materials, all component properties must be considered. The user assumes all liability for any damage or from any hazards inherent in the nature of the product.
Last Revision Date:	04Apr19
Revision Information:	Updated sections 1, 2, 11, and 15.