

# BOMAR

## Material Safety Data Sheet

EU Regulation: 1907/2006



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1</b> PRODUCT IDENTIFICATION					
<b>PRODUCT NAME</b>	CLOVE BUD, ESSENTIAL OIL ORGANIC				
<b>BIOLOGICAL DEFINITION</b>	EUGENIA CARYOPHYLLUS BUD OIL IS AN ESSENTIAL OIL STEAM-DISTILLED FROM THE DRIED FLOWER BUDS OF THE CLOVE, SYZYGIUM AROMATICUM, SYN. EUGENIA CARYOPHYLLUS, MYRTACEAE. IT CONTAINS EUGENOL (82-87% INCLUDING ABOUT 10% ACETYLEUGENOL), CARYOPHYLLENE				
<b>INCI NAME</b>	EUGENIA CARYOPHYLLUS BUD OIL				
<b>SYNONYMS &amp; TRADE NAMES</b>	-				
<b>INTERNAL PRODUCT CODE</b>	K0140				
<b>CAS-NO</b>	84961-50-2	<b>EC No.</b>	284-638-7	<b>EINECS No.</b>	284-638-7
<b>1.2</b> DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>COMPANY ADDRESS</b>	Bomar Ltd Sea Road, Kilcoole, Co.Wicklow, Ireland				
<b>EMAIL</b>	info@bomar.ie				
<b>1.3</b> DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET					
<b>EMERGENCY CONTACTS</b>	John Byrne 012875110				

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SECTION 2: HAZARDS IDENTIFICATION	
<b>2.1</b>	
<b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
<b>CLASSIFICATION (67/548/EEC)</b>	NO ADDITIONAL DATA AVAILABLE.
<b>CLASSIFICATION (EU1272/2008)</b>	<p>EYE IRRITATION, CATEGORY 2 (EYE IRRIT. 2, H319).</p> <p>SKIN SENSITISATION, CATEGORY 1 (SKIN SENS. 1, H317).</p> <p>GERM CELL MUTAGENICITY, CATEGORY 2 (MUTA. 2, H341).</p> <p>CARCINOGENICITY, CATEGORY 1B (CARC. 1B, H350).</p> <p>HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD, CATEGORY 3 (AQUATIC CHRONIC 3, H412).</p> <p>THIS SUBSTANCE DOES NOT PRESENT A PHYSICAL HAZARD. REFER TO THE RECOMMENDATIONS REGARDING THE OTHER PRODUCTS PRESENT ON THE SITE.</p>
<b>2.2</b>	
<b>LABEL ELEMENTS</b>	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
<b>GHS LABEL</b>	  <p>GHS07      GHS08</p>
<b>SIGNAL WORD</b>	DANGER.
<b>CONTAINS</b>	EC 283-479-0 CINNAMON LEAF OIL
<b>HAZARDS STATEMENT</b>	<p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H341 Suspected of causing genetic defects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
<b>SIGNAL WORD</b>	DANGER.
<b>PRECAUTIONARY STATEMENTS</b>	<p>P273 AVOID RELEASE TO THE ENVIRONMENT.</p> <p>P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.</p> <p>P302 + P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.</p> <p>P305 + P351 + P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.</p> <p>P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.</p> <p>P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.</p>

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<b>SUPPLEMENTARY PRECAUTIONARY STATEMENTS</b>	NONE.
<i>SECTION 16 (OTHER INFORMATION): RISK &amp; SAFETY PHRASES IN FULL.</i>	
<b>2.3 OTHER HAZARDS</b>	
<b>ADVERSE PHYSIO-CHEMICAL PROPERTIES</b>	NO DATA.
<b>ADVERSE EFFECTS ON HUMAN HEALTH</b>	THE MIXTURE DOES NOT CONTAIN SUBSTANCES CLASSIFIED AS 'SUBSTANCES OF VERY HIGH CONCERN' (SVHC) >= 0.1% PUBLISHED BY THE EUROPEAN CHEMICALS AGENCY (ECHA) UNDER ARTICLE 57 OF REACH: <a href="http://ECHA.EUROPA.EU/FR/CANDIDATE-LIST-TABLE">HTTP://ECHA.EUROPA.EU/FR/CANDIDATE-LIST-TABLE</a>
<b>PBT OR vPvB ACCORDING TO ANNEX XIII</b>	THE MIXTURE SATISFIES NEITHER THE PBT NOR THE vPvB CRITERIA FOR MIXTURES IN ACCORDANCE WITH ANNEXE XIII OF THE REACH REGULATIONS EC 1907/2006.
<b>SECTION 3: COMPOSITION OF INGREDIENTS</b>	
<b>3.1 MIXTURES</b>	<p>&lt; 87.0% EUGENOL                      CAS-No: 97-53-0                      EC No: 202-589-1            Classification (EC 1272/2008)            GHS07, Warning, Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Eye Irrit. 1 (H319),                      Skin Irrit. 3 (H316)            Acute Tox. 5 (H303), Aquatic Acute 2 (H401) (ECHA), Skin Sens. 1 (H317) (ECHA) Eye Irrit. 1 (H319) (ECHA) Skin Irrit. 3 (316) (ECHA), Acute Tox. 5 (H303)(ECHA)</p> <p>&lt; 5.0% Eugenyl Acetate                      CAS: 93-28-7                      EC No: 202-235-6            Classification (EC 1272/2008)                      GHS07, Warning, Acute Tox. 4, H302</p> <p>&lt; 0.1% Methyl Eugenol                      (Eugenyl Methyl Ether) CAS: 93-15-2 EC No: -202-223-0            Classification (EC 1272/2008)                      GHS07, GHS08, Warning, Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341,            [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.</p>

<b>SECTION 4: FIRST AID MEASURES</b>	
<b>4.1 DESCRIPTION OF FIRST AID MEASURES</b>	
<b>GENERAL INFORMATION</b>	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
<b>INHALATION</b>	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
<b>INGESTION</b>	GET MEDICAL ATTENTION IMMEDIATELY. IMMEDIATELY CALL THE DOCTOR. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.
<b>SKIN CONTACT</b>	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
<b>EYE CONTACT</b>	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.
<b>4.2 MOST IMPORTANT SYMPTOMS &amp; EFFECTS (ACUTE &amp; DELAYED)</b>	OBSERVE RISK OF ASPIRATION IF VOMITING OCCURS.
<b>4.3</b>	TREAT SYMPTOMATICALLY.

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INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	
<b>SECTION 5: FIRE FIGHTING MEASURES</b>	
5.1 EXTINGUISHING MATERIAL	FOAM, CO <sub>2</sub> , DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
5.3 ADVICE FOR FIRE-FIGHTERS	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.
<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
6.1 PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID INHALATION.
6.2 ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS. COVER WITH AN INERT, INORGANIC, NON-COMBUSTIBLE ABSORBENT MATERIAL (E.G DRY-LIME, SAND, SODA ASH).
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 12.
<b>SECTION 7: HANDLING &amp; STORAGE</b>	
7.1 PRECAUTIONS FOR SAFE-HANDLING	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES. - NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	STORAGE CLASS: FLAMMABLE LIQUID STORAGE. STORE ONLY IN THE ORIGINAL RECEPTACLE. KEEP CONTAINER TIGHTLY SEALED. KEEP IN COOL, DRY, VENTILATED STORAGE AND CLOSED CONTAINERS. KEEP AWAY FROM HEAT.
7.3 SPECIFIC END USE(S)	THE INFORMATION REQUIRED IS CONTAINED IN THIS MATERIAL SAFETY DATA
<b>SECTION 8: EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>	
8.1 CONTROL PARAMETERS	NO DATA.
8.2 EXPOSURE CONTROLS	

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<b>EYE PROTECTION</b>	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. AVOID CONTACT WITH EYES. WEAR APPROVED SAFETY GOGGLES. (EN166)
<b>HAND PROTECTION</b>	AVOID CONTACT WITH SKIN. WASH HANDS BEFORE BREAKS AND AT END OF WORK. WEAR PROTECTIVE GLOVES. DIN/EN 374. THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/ THE SUBSTANCE/ THE PREPARATION. PENETRATION TIME OF GLOVE MATERIAL: THE EXACT BREAK THROUGH TIME HAS TO BE FOUND OUT BY THE MANUFACTURER OF THE PROTECTIVE GLOVES AND HAS TO BE OBSERVED.
<b>RESPIRATORY EQUIPMENT</b>	DO NOT INHALE GASES / FUMES / AEROSOLS. CERTIFIED RESPIRATORY PROTECTIVE DEVICE RECOMMENDED.
<b>HYGIENE MEASURES</b>	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
<b>ENGINEERING MEASURES</b>	NONE.
<b>SKIN PROTECTION</b>	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
<b>PERSONAL PROTECTION</b>	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES. AVOID CONTACT WITH SKIN AND EYES. USE PERSONAL PROTECTION ACCORDING TO DIRECTIVE 89/686/EEC.
<b>OTHER PROTECTION</b>	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
<b>PROCESS CONDITIONS</b>	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
<b>ENVIRONMENTAL EXPOSURE CONTROLS</b>	AVOID DISCHARGING INTO DRAINAGE WATER.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

<b>9.1 PHYSICAL &amp; CHEMICAL PROPERTIES</b>	
<b>APPEARANCE</b>	LIMPID LIQUID
<b>COLOUR</b>	YELLOW – DARK BROWN
<b>ODOUR</b>	SPICY & SWEET, CHARACTERISTIC
<b>RELATIVE DENSITY @ 20°C</b>	1.04
<b>FLASH POINT (°C)</b>	88°C.
<b>REFRACTIVE INDEX @ 20 °C</b>	1.555
<b>SOLUBILITY IN WATER @ 20 °C</b>	INSOLUBLE IN WATER. SOLUBLE IN 2 VOLUMES MAXIMUM OF ETHANOL 70%.
<b>9.2 OTHER INFORMATION</b>	AUTO-IGNITION TEMPERATURE 380°C.

## SECTION 10: STABILITY & REACTIVITY

<b>10.1 REACTIVITY</b>	NOT APPLICABLE.
<b>10.2 CHEMICAL STABILITY</b>	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C). STABLE UNDER NORMAL CONDITIONS.
<b>10.3 POSSIBILITY OF HAZARDOUS REACTIONS</b>	NONE UNDER NORMAL PROCESSING.
<b>10.4 CONDITIONS TO AVOID</b>	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C. AVOID HEAT, FLAMES AND OTHER SOURCES OF IGNITION.
<b>10.5 INCOMPATIBLE MATERIALS</b>	AVOID CONCENTRATED ACIDS, ALKALIS & OXIDISING AGENTS.

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<b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS</b>	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.
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<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>11.1 TOXICOLOGICAL EFFECTS</b>	
<b>ACUTE TOXICITY</b>	CINNAMON LEAF OIL (CAS: 84649-98-9) ORAL ROUTE: DL50 = 2650 MG/KG SPECIES : RAT (RECOMMENDED BY THE CLP) DERMAL ROUTE: DL50 > 5000 MG/KG SPECIES : RABBIT (RECOMMENDED BY THE CLP)
<b>SKIN IRRITATION</b>	MAY CAUSE ALLERGIC REACTION.
<b>EYE DAMAGE OR IRRITATION</b>	MAY HAVE REVERSIBLE EFFECTS ON THE EYES, SUCH AS EYE IRRITATION WHICH IS TOTALLY REVERSIBLE BY THE END OF OBSERVATION AT 21 DAYS.
<b>RESPIRATORY OR SKIN SENSITIVITY</b>	NO DATA.
<b>GERM CELL MUTAGENICITY</b>	CAUSE FOR CONCERN OWING TO THE POSSIBILITY THAT IT MAY INDUCE HERITABLE MUTATIONS IN THE GERM CELLS OF HUMANS.
<b>CARCINOGENICITY</b>	PRESUMED HUMAN CARCINOGEN
<b>REPRODUCTIVE TOXICITY</b>	NO DATA.
<b>STOT – SINGLE EXPOSURE</b>	NO DATA.
<b>STOT – REPEATED EXPOSURE</b>	NO DATA.
<b>ASPIRATION HAZARD</b>	NO DATA.
<b>OTHER INFORMATION</b>	NO DATA.
<b>SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>12.1 TOXICITY</b>	HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. THE PRODUCT MUST NOT BE ALLOWED TO RUN INTO DRAINS OR WATERWAYS. SUBSTANCES CLASSIFIED AS CATEGORY 1 ACUTE TOXICITY: CRUSTACEAN TOXICITY: DURATION OF EXPOSURE : 48 H CE50 = 1.61 MG/L SPECIES: DAPHNIA SP. OECD GUIDELINE 202 (DAPHNIA SP. ACUTE IMMOBILISATION TEST)
<b>12.2 PERSISTENCE &amp; DEGRADABILITY</b>	NO DATA.
<b>12.3 BIO- ACCUMULATIVE POTENTIAL</b>	NO DATA.
<b>12.4 MOBILITY IN SOIL</b>	NO DATA
<b>12.5 RESULTS OF PBT &amp; VPVB ASSESSMENT</b>	NO DATA.
<b>12.6</b>	NO DATA.

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OTHER ADVERSE EFFECTS	
<b>SECTION 13: DISPOSAL INFORMATION</b>	
13.1 WASTE TREATMENT METHODS	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

<b>SECTION 14: TRANSPORT INFORMATION</b>	
14.1 TRANSPORT INFORMATION	
	<b>UN NUMBER</b> NOT CLASSIFIED.
14.2 UN SHIPPING NAME	NONE.
14.3 TRANSPORT HAZARD CLASS(ES)	NONE.
14.4 PACKING GROUP	NONE.
14.5 ENVIROMENTAL HAZARDS	NO ADDITIONAL DATA.
14.6 SPECIAL PRECAUTIONS FOR USER	SEE SECTIONS 6-8.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NONE.

<b>SECTION 15: REGULATORY INFORMATION</b>	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
<b>EU DIRECTIVES</b>	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 <sup>TH</sup> DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO793/93 & COMMISSION REGULATION (EC) NO1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
<b>STATUTORY INSTRUMENTS</b>	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716).

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<b>APPROVED CODE OF PRACTICE</b>	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
<b>GUIDANCE NOTES</b>	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
<b>15.2 CHEMICAL SAFETY ASSESSMENT</b>	AN ASSESSMENT HAS NOT BEEN EXECUTED AS THIS IS NOT A HAZARDOUS MATERIAL ACCORDING TO ARTICLE 31 OF REACH 1907/2006.

SECTION 16: OTHER INFORMATION	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H319 CAUSES SERIOUS EYE IRRITATION. H341 SUSPECTED OF CAUSING GENETIC DEFECTS. H350 MAY CAUSE CANCER. H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
<b>MSDS</b>	MATERIAL SAFETY DATA SHEET.
<b>INCI</b>	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
<b>CAS</b>	CHEMICAL ABSTRACT SERVICE.
<b>IMDG</b>	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
<b>ADR</b>	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
<b>RID</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
<b>ICAO</b>	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
<b>ADN</b>	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
<b>GHS</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
<b>TREM CARD</b>	TRANSPORT EMERGENCY CARD.
<b>STOT</b>	SPECIFIC TARGET ORGAN TOXICITY.

## DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 <sup>TH</sup> APRIL 2018	DATA LAUNCH

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