

SAFETY DATA SHEET

Issuing Date	21-Mar-2016	Revision Date	21-Mar-2016	Revision Number 0	
Sectio	n 1. Identificat	ion of the subs	stance/mixtur	e and of the company/undertaking	
1.1. Product i Product Name Part Number Formula Code		LPS [®] SAFE-MAR M57802 A981M	K FOOD CONTAG	CT SURFACE MARKER, BLACK	
1.2. Relevant	identified uses of th	ne substance or mi	xture and uses a	lvised against	
Recommended	d Use	Solvent-based pa	aint marker		
Uses advised a	against	No information av	/ailable		
Importer Alsco Ltd	n SN5 5FZ	safety data sheet Manufacture ITW Pro Bran 805 E. Old 56 Olathe, KS 66 www.lpslabs. TEL: +001 91	ids 6 Highway 6061 (USA) com		
	ormation, please co				
E-mail Address	-	lpssds@itwprobra	ands.com		
Emergency Tel Number	<u>cy telephone numb</u> lephone	+001 352-323-35	00 Infotrac		
Europe		112			
		Section 2.	Hazards ide	ntification	

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

Physical Hazards

Flammable liquids	Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s)	F - Highly flammable
	Xn - Harmful
R-code(s)	F;R11 - Xn;R20 - Xi;R36/37 - R66

LPS[®] SAFE-MARK FOOD CONTACT SURFACE MARKER, BLACK

2.2. Label Elements



Signal Word

Danger

Hazard Statements

H303 - May be harmful if swallowed

- H313 May be harmful in contact with skin
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H225 Highly flammable liquid and vapor
- EUH066 Repeated exposure may cause skin dryness or cracking
- EUH210 Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)

P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction

Precautionary Statements

- P270 Do not eat, drink or smoke when using this product
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
- P330 Rinse mouth
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P363 Wash contaminated clothing before reuse
- P322 Specific measures (see supplemental first aid instructions on this label)
- P311 Call a POISON CENTER or doctor/ physician
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/ attention
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P240 Ground/Bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/lighting/equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
- P403 + P235 Store in a well-ventilated place. Keep cool

2.3. Other information

Contains Methyl isobutyl ketone, cyclohexanone

Section 3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Methyl isobutyl ketone	203-550-1	108-10-1	60-100	F; R11 Xn; R20 Xi; R36/37 R66	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	No data available
Cyclohexanone	203-631-1	108-94-1	15-40	R10 Xn; R20	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
Titanium dioxide	236-675-5	13463-67-7	3-7	-		No data available
Carbon black	215-609-9 435-640-3	1333-86-4	1-5	-		No data available

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

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Seek immediate
Skin Contact	medical attention/advice. Wash off immediately with soap and plenty of water removing all contaminated clothes and
Skin Contact	shoes. If skin irritation persists, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.
Protection of First-aiders	Remove all sources of ignition. Use personal protective equipment.
4.2 Most important symptoms on	d affacto, both courte and delayed

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

Most Important Symptoms/Effects No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Water spray. Foam.

Extinguishing media which must not be used for safety reasons

No information available.

basements, tanks).

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers,

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from incompatible materials.

7.3. Specific end use(s) Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	United Kingdom	France	Spain	Germany
Methyl isobutyl ketone 108-10-1	TWA 20 ppm TWA 83 mg/m ³ STEL 50 ppm STEL 208 mg/m ³	STEL: 100 ppm STEL: 416 mg/m ³ TWA: 50 ppm TWA: 208 mg/m ³ Skin	TWA: 20 ppm TWA: 83 mg/m ³ STEL: 50 ppm STEL: 208 mg/m ³	STEL: 50 ppm STEL: 208 mg/m ³ TWA: 20 ppm TWA: 83 mg/m ³	TWA: 20 ppm TWA: 83 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 166 mg/m ³ Skin
Cyclohexanone	S*	STEL: 20 ppm	VME: 10 ppm	S*	Skin
108-94-1	TWA 10 ppm TWA 40.8 mg/m ³ STEL 20 ppm STEL 81.6 mg/m ³	STEL: 82 mg/m ³ TWA: 10 ppm TWA: 41 mg/m ³ Skin	VME: 40.8 mg/m ³ VLCT: 20 ppm VLCT: 81.6 mg/m ³	VLA-EC: 20 ppm VLA-EC: 82 mg/m ³ VLA-ED: 10 ppm VLA-ED: 41 mg/m ³	TWA: 20 ppm TWA: 80 mg/m ³
Titanium dioxide 13463-67-7		STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	VME: 10 mg/m ³	VLA-ED: 10 mg/m ³	
Carbon black 1333-86-4		STEL: 7 mg/m ³ TWA: 3.5 mg/m ³	VME: 3.5 mg/m ³	VLA-ED: 3.5 mg/m ³	
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Methyl isobutyl ketone 108-10-1(60-100)	TWA: 20 ppm TWA: 83 mg/m ³ STEL: 50 ppm STEL: 208 mg/m ³	STEL: 75 ppm TWA: 50 ppm	STEL: 208 mg/m ³ TWA: 104 mg/m ³	TWA: 20 ppm TWA: 80 mg/m ³ STEL: 50 ppm STEL: 210 mg/m ³	TWA: 20 ppm TWA: 83 mg/m ³ Skin
Cyclohexanone 108-94-1(15-40)	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ Skin	STEL: 50 ppm TWA: 20 ppm	Skin STEL: 50 mg/m ³	TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ Skin	TWA: 10 ppm TWA: 40 mg/m ³ Skin
Titanium dioxide 13463-67-7(3-7)		TWA: 10 mg/m ³			TWA: 6 mg/m ³
Carbon black 1333-86-4(1-5)		TWA: 3.5 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Methyl isobutyl ketone 108-10-1	Skin STEL 50 ppm STEL 208 mg/m ³ TWA: 20 ppm TWA: 83 mg/m ³	Skin STEL: 40 ppm STEL: 164 mg/m ³ TWA: 20 ppm TWA: 82 mg/m ³	STEL: 200 mg/m ³ TWA: 83 mg/m ³	TWA: 25 ppm TWA: 105 mg/m ³ Skin STEL: 37.5 ppm STEL: 131.25 mg/m ³	TWA: 20 ppm TWA: 83 mg/m ³ STEL: 50 ppm STEL: 208 mg/m ³ Skin
Cyclohexanone 108-94-1	Skin STEL 20 ppm STEL 80 mg/m ³ MAK: 5 ppm MAK: 20 mg/m ³	Skin STEL: 50 ppm STEL: 200 mg/m ³ MAK: 25 ppm MAK: 100 mg/m ³	NDSCh: 80 mg/m ³ NDS: 40 mg/m ³ Skin	TWA: 20 ppm TWA: 80 mg/m ³ Skin STEL: 30 ppm STEL: 120 mg/m ³	TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ Skin
Titanium dioxide 13463-67-7	STEL 10 mg/m ³ MAK: 5 mg/m ³	MAK: 3 mg/m ³	NDSCh: 30 mg/m ³ NDS: 10.0 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³
Carbon black 1333-86-4			NDS: 4.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³

LPS[®] SAFE-MARK FOOD CONTACT SURFACE MARKER, BLACK

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Methyl isobutyl ketone			2 mg/L urine end of	3.5 mg/L urine end of	3.5 mg/L urine end of
108-10-1			shift	shift Methyl isobutyl	shift
			Methylisobutylketone	ketone 2	4-Methylpentan-2-one
Cyclohexanone				80 mg/L urine end of	
108-94-1				workweek	
				1,2-Ciclohexanodiol	
				(with hydrolysis)	
				1,9,I,S	
				8 mg/L urine end of	
				shift Ciclohexanol (with	
				hydrolysis) 2,9,1,S	
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Methyl isobutyl ketone	(ACGIH:) 1 mg/L urine				
108-10-1(60-100)	end of shift MIBK				
Cyclohexanone	(ACGIH:) 80 mg/L urine				
108-94-1(15-40)	end of shift at end of				
	workweek				
	1,2-Cyclohexanediol				
	(with hydrolysis)				
	Nonspecific,				
	semi-quantitative (ACGIH:) 8 mg/L urine				
	end of shift				
	Cyclohexanol (with				
	hydrolysis) Nonspecific,				
	semi-quantitative				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Methyl isobutyl ketone		2 mg/L urine end of		,	
108-10-1		shift			
		4-Methylpentan-2-one			
Cyclohexanone		100 mg/L urine end of			
108-94-1		shift, and after several			
		shifts (for long-term			
		exposures)			
		total-1,2-Cyclohexandi			
		ol			
		12 mg/L urine end of			
		shift, and after several			
		shifts (for long-term			
		exposures)			
		total-Cyclohexanol			
Chemical Name	Romania		vakia	Latvia	Bulgaria
Methyl isobutyl ketone			exposure or work shift		
108-10-1(60-100)		4-Methyl-2-pen	tanone Hexone		

Derived No Effect LevelNo information availablePredicted No Effect ConcentrationNo information available.(PNEC)No

8.2. Exposure controls

Engineering Measures Personal protective equipment	Ensure adequate ventilation, especially in confined areas.
Eye Protection	No protective equipment is needed under normal use conditions. If splashes are likely to occur, wear: Chemical splash goggles.
Skin and Body Protection	Risk of contact: Apron. Boots.
Hand Protection	Risk of contact wear: Chemical resistant gloves
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Environmental Exposure Controls	Do not allow material to contaminate ground water system.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Odor	Liquid Mild ketonic solvent.	Appearance Black
<u>Property</u> pH Melting Point/Range Boiling Point/Boiling Range Flash Point Evaporation rate Flammability (solid, gas)	<u>Values</u> No data available No data available 117.2 °C / 243 °F 15.6 °C / 60 °F 1.6 (BuAc = 1) No data available	Remarks/ - Method None known None known Tag closed cup None known None known
Vapor Pressure Vapor Density Relative Density Water Solubility Solubility in other solvents Partition coefficient: n-octand Autoignition Temperature Decomposition Temperature Viscosity Flammable Properties Explosive Properties Oxidizing Properties	No data available No data available No data available	
9.2. Other information Flammability Limits in Air Upper Lower	8 1.2	

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks. Incompatible products.

10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Soot.

Section 11. Toxicological information

<u>11.1.</u>

Acute Toxicity	
Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes. Causes serious eye irritation.
Skin Contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl isobutyl ketone	= 2080 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	= 8.2 mg/L (Rat) 4 h
Cyclohexanone	= 800 mg/kg (Rat)	= 948 mg/kg (Rabbit)	= 10.7 mg/L (Rat)4 h = 8000 ppm (Rat)4 h
Titanium dioxide	> 10000 mg/kg (Rat)		
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	

Sensitization Mutagenic Effects Carcinogenic Effects	No information available. No information available. No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Central nervous system (CNS). Eyes. Kidney. Liver. Lungs. Lymphatic system. Respiratory system. Skin.
Aspiration Hazard	No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl isobutyl ketone	EC50 96 h: = 400 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 496 - 514 mg/L flow-through (Pimephales promelas)	EC50 = 79.6 mg/L 5 min	EC50 48 h: = 170 mg/L (Daphnia magna)
Cyclohexanone	EC50 96 h: = 20 mg/L (Chlorella vulgaris)	LC50 96 h: 481-578 mg/L flow-through (Pimephales promelas) LC50 96 h: = 8.9 mg/L (Pimephales promelas)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	EC50 24 h: = 800 mg/L (Daphnia magna)
Carbon black				EC50 24 h: > 5600 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

Chemical Name	Log Pow
Methyl isobutyl ketone	1.19
Cyclohexanone	0.86

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14. Transport information

IMDG/IMO	
14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	II
Description	UN1263, Paint, 3, II, (15.6°C c.c.), Limited Quantity
14.5. Marine Pollutant	None.
14.6. Special Provisions	None.
EmS No.	F-E, S-E
14.7. Transport in bulk according	No information available.
to Annex II of MARPOL 73/78 and	
the IBC Code	
RID	
14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	II
Description	UN1263, Paint, 3, II, Limited Quantity
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
Classification Code	F1

ADR 14.1. UN-Number 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions Classification Code Tunnel Restriction Code	UN1263 Paint 3 II UN1263, Paint, 3, II, (D/E), Limited Quantity None. None. F1 (D/E)
ICAO 14.1. UN-Number 14.2. Proper shipping name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions	ID8000 Consumer commodity 9 Not regulated. ID8000, Consumer commodity, 9 None. None.
IATA 14.1. UN-Number 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions ERG Code	ID8000 Consumer commodity 9 Not regulated. ID8000, Consumer commodity, 9 None. None. 9L

Section 15. Regulatory information

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

International Inventories

TSCA	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of R-phrases referred to under Sections 2 and 3

R11 - Highly flammable

R66 - Repeated exposure may cause skin dryness or cracking

R20 - Harmful by inhalation

R10 - Flammable

R36/37 - Irritating to eyes and respiratory system

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor

H335 - May cause respiratory irritation

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H226 - Flammable liquid and vapor

H303 - May be harmful if swallowed

H313 - May be harmful in contact with skin

EUH066 - Repeated exposure may cause skin dryness or cracking

EUH210 - Safety data sheet available on request

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date	21-Mar-2016
Revision Date	21-Mar-2016
Revision Note	Initial Release

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet