1. Identification

1.1. Product Identifier

Product name	Clear Coat
Product code	2005
Other means of identification	Batch tag/number

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

Product use	Industrial use/Professional applications. Used by spraying.
Use of the substance/mixture	Coating.

Details of the supplier of the safety data sheet

MK1 Paints Ltd
58 Perry Street,
Wednesbury
West Midlands
WS10 0AZ

0121 5020050

E-mail address of person responsible for this SDS	purchase@mk1paints.co.uk

1.3. Emergency telephone number of Supplier

Telephone number	Company emergency telephone number 0121 5020050

2. Hazards identification

2.1. Classification of the substance or mixture

Product definition: Mixture

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

Hazard Statements (H Numbers)

Code	Statement	Hazard Class
H226	Flammable liquid and vapour	Flam. Liq. 3
H336	May cause drowsiness or dizziness	STOT SE 3
H304	May be fatal if swallowed and enters airways	Asp. Tox. 1
H412	Harmful to aquatic life with long lasting effects	Aquatic Chronic 3

See Section 11 for more detailed information on health effects and symptoms.

2.2. Label elements

Hazard pictograms

Signal word: Warning

Hazard statements:
Flammable liquid and vapour.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Code	Statement	Category
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	Prevention
P261	Avoid breathing vapours/spray.	Prevention
P273	Avoid release to the environment.	Prevention
P280	Wear protective gloves/protective clothing/eye protection/face protection.	Prevention
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.	Response
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	Response
P403 + P235	Store in a well-ventilated place. Keep cool.	Storage
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	Disposal

2.3. Other hazards

No other information is available

3. Composition/information on ingredients

Substance/mixture Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]	Type
n-butyl acetate	CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29	10-25	Flam. Liq. 3 (H226) STOT SE 3 (H336)	1,2
Solvent naphtha (petroleum), light arom. : Nota(s) P	CAS: 64742-95-6 EC: 265-199-0 REACH: 01-2119463583-34	≥2.5-< 5	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	1
Xylene	CAS: 1330-20-7 EC: 215-535-7 REACH: 01-119488216-32	5 - 15	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	2
2-Hydroxyethyl methacrylate	CAS: 68-77-9 EC: 212-782-2 REACH: 01-2119490169-29	<1	Aquatic Chronic 3 (H412)	1
n-Butyl methacrylate	CAS: 97-88-1 EC: 202-615-1 REACH: 01-2119486394-28	<1	Skin Sens. 1 (H317)	1

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]	Type
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29	<1	Flam. Liq. 3 (H226) STOT SE 3 (H336)	1
2-butoxyethyl acetate	CAS: 112-07-2 EC: 203-933-3 REACH: 01-2119475112-47	<1	Acute Tox. 4 (H312) Eye Irrit. 2 (H319)	1
C7–C9 Alkyl Benzotriazole Derivatives	CAS: 127519-17-9 EC: 407-000-3 REACH: 01-0000015648-61	≥0.25-<2.5	Aquatic Chronic 3 (H412)	1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7 EC: 255-437-1	<0.25	Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	1

Type

1 Substance classified with a health or environmental hazard
2 Substance with a workplace exposure limit

See Section 16 for the full text of the H- statements declared above.

Occupational exposure limits, if available, are listed in Section 8.

4. First aid measures

4.1. Description of first aid measures

Eye Contact	Rinse cautiously with water for 15 minutes. Seek medical attention.
Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact	Wash with soap and water. Remove contaminated clothing.
Ingestion	Do not induce vomiting. Seek medical advice immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects

Eye contact	No known significant effects.
Inhalation	CNS depression, drowsiness, dizziness.
Skin contact	Defatting, dryness, irritation.
Ingestion	CNS effects, nausea, vomiting

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

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam, dry chemical, CO_2
Unsuitable extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Flammable liquid and vapour
- Risk of explosion if heated
- Harmful to aquatic life
- Combustion products: CO_2, CO, smoke and other toxic vapours

5.3. Advice for firefighters

- Wear SCBA and full protective gear (EN 469)
- Isolate area, remove containers if safe
- Use water spray to cool exposed containers
- Avoid inhalation of combustion products
- Prevent runoff from entering drains or waterways

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Evacuate the area immediately.
- Avoid breathing vapours or mist.
- Eliminate all ignition sources.
- Use spark-proof tools and explosion-proof equipment.
- Wear appropriate PPE: gloves (EN 374), goggles (EN 166), and respirator (EN 140/143) if ventilation is inadequate.

6.2. Environmental precautions

- Prevent entry into drains, sewers, or watercourses.
- Contain spill to avoid soil or groundwater contamination.
- Notify relevant authorities if environmental contamination occurs.

6.3. Methods and materials for containment and cleaning up

Small spill	Absorb with inert material. Dispose via licensed contractor.
Large spill	Contain with non-combustible absorbents (sand, earth). Prevent runoff. Use bunding if necessary. Dispose via licensed waste contractor.

6.4. Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. Precautions for safe handling

- Use only with adequate ventilation. Avoid contact with skin and eyes.
- Employ explosion-proof electrical systems and ground containers during transfer

- Avoid skin and eye contact; do not inhale vapours or spray.
- Do not reuse empty containers.

7.2. Conditions for safe storage

- Store in original container, tightly sealed, in cool, dry, ventilated area (0–35°C).
- Keep away from heat, sparks, oxidisers, acids, alkalis.
- Store locked up.
- Prevent leaks or spills that could contaminate soil or water.

7.3. Specific end use(s)

No specific industrial sector recommendations available.

8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1. Control parameters

Occupational exposure limits

Product/ingredient name	Short Term Exposure Limits (STEL) – 15 minutes		Time Weighted Average (TWA) – 8 hours	
	mg/m³	ppm	mg/m³	ppm
n-butyl acetate[1]	966	200	724	150
2-methoxy-1-methylethyl acetate[2]	548	100	274	50
2-butoxyethyl acetate[2]	332	50	133	20
Xylene[1]	441	100	220	50

Notes

[1] EH40/2005 WELs (United Kingdom (UK), 12/2011).
[2] EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological 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 should be made to monitoring standards such as: EN 689: Workplace atmospheres – Guidance for assessment of exposure by inhalation EN 14042: Guide for application and use of procedures for assessment of exposure EN 482: General requirements for performance of measurement procedures National guidance documents for determination of hazardous substances

DNELs (workers)

Product/ingredient name	Exposure	Acute		Long term	
		Systemic	Local	Systemic	Local
n-butyl acetate	Oral Dermal Inhalation	N/A 11mg/kg bw/day 600mg/m³	N/A N/A 600mg/m³	N/A 11mg/kg bw/day 300mg/m³	N/A N/A 300mg/m³
Solvent naphtha (petroleum), light arom.	Oral Dermal Inhalation	N/A 120mg/kg bw/day N/A	N/A N/A 333mg/m³	N/A 168mg/kg bw/day 133mg/m³	N/A N/A 333mg/m³
Xylene	Oral Dermal Inhalation	N/A 318mg/kg bw/day 442mg/kg bw/day	N/A N/A 442mg/kg bw/day	N/A 212mg/kg bw/day 221mg/m³	N/A N/A 221mg/m³
2-Butoxyethl acetate	Oral Dermal Inhalation	N/A 38mg/kg bw/day 246mg/m³	N/A N/A N/A	N/A 75mg/kg bw/day 98mg/m³	N/A N/A N/A
2-methoxy-1-methylethyl acetate	Oral Dermal Inhalation	N/A 154mg/kg bw/day 550mg/m³	N/A N/A N/A	N/A 153mg/kg bw/day 275mg/m³	N/A N/A N/A

DNELs (general population)

Product/ingredient name	Exposure	Acute		Long term	
		Systemic	Local	Systemic	Local
n-butyl acetate	Oral Dermal Inhalation	2mg/kg bw/day 6mg/kg bw/day 300mg/m³	N/A N/A 600mg/m³	2mb/kg bw/day 6mg/kg bw/day 35.7mg/m³	N/A N/A 35.7mg/m³
solvent naphtha (petroleum), light aromatic	Oral Dermal Inhalation	N/A 11mg/kg bw/day N/A	N/A N/A N/A	11mg/kg bw/day 11mg/kg bw/day N/A	N/A N/A N/A
Xylene	Oral Dermal Inhalation	2.1mg/kg bw/day 108mg/kg bw/day 442mg/kg bw/day	N/A N/A 442mg/kg bw/day	2.1mg/kg bw/day 108mg/kg bw/day 14.8mg/m³	N/A N/A 14.8mg/m³
2-Butoxyethl acetate	Oral Dermal Inhalation	N/A N/A N/A	N/A N/A N/A	N/A 102mg/kg bw/day 80mg/m³	N/A N/A N/A
2-methoxy-1-methylethyl acetate	Oral Dermal Inhalation	N/A N/A N/A	N/A N/A N/A	36mg/kg bw/day 153mg/kg bw/day 33mg/m³	N/A N/A N/A

PNEC

Product/Ingredient name	Environment	Value
n-butyl acetate	Fresh water Marine water Fresh water sediment Marine water sediment Sewage Treatment Soil	0.18mg/l 0.018mg/l 0.981mg/l 0.0981mg/l 35.6mg/l 0.0903 mg/kg
Solvent naphtha (petroleum), light arom.	Fresh water Marine water Sewage Treatment Soil	0.1mg/l 0.01mg/l 10mg/l 0.1mg/l
2-Butoxyethyl acetate	Fresh water Marine water Sewage Treatment Soil	8.8mb/l 0.88mg/l 100mg/l 0.63mg.kg
2-methoxy-1-methylethyl acetate	Fresh water Marine water Fresh water sediment Marine water sediment Sewage Treatment Soil	0.635mg/l 0.0635mg/l 3.29mg/kg 0.329mg/kg 100mg/l 0.29mg/kg

8.2. Exposure controls

Appropriate engineering controls	Use local exhaust ventilation and explosion-proof equipment. Ensure adequate general ventilation in all areas where vapours may accumulate.
Eye protection	Safety glasses with side shields (EN 166).
Hand protection	Nitrile, butyl rubber, PVC, or Viton® gloves (EN 374).
Skin protection	Antistatic protective clothing (EN 1149).
Respiratory protection	Air-fed or air-purifying respirator (EN 140/EN 143).
Environmental controls	Prevent release to soil, water, or drains. Use fume scrubbers or filters if needed

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Colour	Colourless
Odour	Solvent-like
Odour threshold pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	120-210°C
Flash point	Closed cup: 30°C
Evaporation rate	Moderate
Flammability	Not applicable

Upper/lower flammability or explosive limits	Lower: 1% Upper: 10%
Vapour pressure	0.3 – 2.0 kPa @ 20°C
Vapour density	~3.97 (Air = 1)
Relative density	0.86-0.96
Solubility(ies)	Slightly soluble in cold water.
Partition coefficient: n-octanol/water	Log Kow: 1.2–3.5 (estimated range)
Auto-ignition temperature	>200°C
Decomposition temperature	Not available
Viscosity	30 - 40 s (ISO 6mm)
Explosive properties	Not available
Oxidising properties	Not available

10. Stability and reactivity

10.1. Reactivity No specific reactivity data available.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions None under normal use.

10.4. Conditions to avoid Heat, sparks, open flames, static discharge, direct sunlight.

10.5. Incompatible materials Strong oxidisers, acids & alkalis.

10.6. Hazardous decomposition products Carbon monoxide, carbon dioxide, smoke.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/Ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation LD50 Dermal LD50 Oral	Rat Rabbit Rat	>21.1mg/l >17600mg/kg 10.768g/kg	4 hours - -
Solvent naphtha (petroleum), light arom.	LD50 Oral LD50 Dermal LC50 Inhalation	Rat Rabbit Rat	>6800g/kg >2000mg/kg 5.28mg/l	- - 4 hours
Xylene	LD50 Oral LD50 Dermal LC50 Inhalation	Rat Rabbit Rat	4300g/kg 1700mg/kg 6.35mg/l	- - 4 hours
2-Butoxyethyl acetate	LD50 Oral LD50 Dermal LC50 Inhalation	Rat Rabbit Rat	1230mg/kg 1500mg/kg >5.28mg/l	- - 4 hours
2-Methoxy-1-methylethyl acetate	LD50 Oral LD50 Dermal LC50 Inhalation	Rat Rabbit Rat	5800mg/kg >20000mg/kg ?15000ppm	- - 4 hours

Acute toxicity estimates

Route	ATE Value
Oral	2450 mg/kg
Dermal	1900mg/kg
Inhalation (vapours)	6.2 mg/l

Irritation/Corrosion

Skin irritation: Mild to moderate irritation possible from solvents present above threshold.

Eye irritation: May cause reversible irritation.

Sensitisation

Skin sensitisation: No sensitising ingredients present above CLP cut-off limits.

Mutagenicity

No components are classified as mutagenic under current CLP criteria.

Carcinogenicity

None of the listed ingredients are classified as carcinogenic

Reproductive toxicity

No reproductive toxicity classifications apply to the listed ingredients.

Teratogenicity

No specific data available. No classification under CLP

Specific target organ toxicity – single exposure

May cause drowsiness or dizziness (H336) due to solvent vapour inhalation.

Specific target organ toxicity – repeated exposure

No classification for repeated exposure applies to the listed ingredients.

Aspiration hazard

Solvent naphtha (petroleum), light arom.: Classified as Asp. Tox. 1 (H304) — may be fatal if swallowed and enters airways.

12. Ecological information

12.1. Toxicity

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	LC50: 32,000 µg/L	Marine water fish	96 hours
	LC50: 62,000 µg/L	Crustacea – Artemia salina	48 hours
Solvent naphtha (petroleum), light arom.	LC50: ~2.5 mg/L	Fish – Danio rerio	96 hours
2-Butoxyethyl actetae	LC50: ~1,490 mg/L	Fish – Oncorhynchus mykiss	96 hours
2-methoxy-1-methylethyl acetate	LC50: >100 mg/L	Fish – Oryzias latipes	96 hours

12.2. Persistence and degradability

Product/ingredient name	Persistence and degradability
n-butyl acetate	Readily biodegradable in water
Solvent naphtha (petroleum), light arom.	May cause long-term adverse effects in the environment
2-Butoxyethyl acetate	Readily biodegradable

Product/ingredient name	Persistence and degradability
2-methoxy-1-methylethyl acetate	Readily biodegradable in soil and water

12.3. Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
n-butyl acetate	2.3	15.3	Low
Solvent naphtha (petroleum), light arom.	>3	-	High
2-Butoxyethyl actetae	1.51	-	Moderate
2-methoxy-1-methylethyl acetate	1.2	-	Low

12.4. Mobility in soil

Product/ingredient name	$LogK_{ow}$	Surface Tension	Potential
n-butyl acetate	1.268–1.844	0.0163 N/m	Moderate
Solvent naphtha (petroleum), light arom.	>3	—	Low
2-Butoxyethanol	1.51	—	Moderate
2-methoxy-1-methylethyl acetate	0.264	29.4 mN/m	High

12.5. Results of PBT and vPvB assessment

PBT	Not applicable
vPvB	Not applicable

12.6. Other adverse effects

Volatile Organic Compounds (VOCs) such as n-butyl acetate, acetone, and 2-butoxyethyl acetate may contribute to photochemical ozone formation.

Solvent naphtha may persist in the environment and affect aquatic sediment quality.

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1. Waste treatment methods

Product: Dispose via licensed waste contractor. Do not discharge to drains.

Packaging: Recycle if possible. Empty containers may retain flammable vapours. Handle as hazardous waste unless thoroughly cleaned.

EWC Code: 08 01 11 – Waste paint and varnish containing organic solvents or other dangerous substances

14. Transport information

	ADR/RID	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III

Additional information

Marine pollutant	No.
Tunnel code	(D/E)
Special precautions for user	Transport upright in sealed containers. Avoid spillage.

15. Regulatory information

15.1. Safety, health and environmental regulations

REACH: All applicable substances registered

Annex XIV: No substances listed

SVHC: None present

Annex XVII: Not applicable

15.2. Chemical Safety Assessment No Chemical Safety Assessment has been carried out.

16. Other information

Abbreviations and acronyms

ATE	Acute Toxicity Estimate
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL	Derived No Effect Level
EUH statement	CLP-specific Hazard statement
PNEC	Predicted No Effect Concentration
RRN	REACH Registration Number

Full text of abbreviated H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H335	May cause respiratory irritation. (Respiratory tract irritation)
H336	May cause drowsiness or dizziness. (Narcotic effects)
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1

Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Disclaimer

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