

SAFETY DATA SHEET

Date issued 04/07/2013

KNL000023 : Flowline Fine Opalescent



Flammable



Harmful



or



Transport:

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code	KNL000023	Product Name	Flowline Fine Opalescent
CAS No.	Not applicable	EU Index No	Not applicable
Recommended use	A paint or paint constituent product		
Emergency contact	(Tel): +27(0) 41 4011400		
		UN No	1263

SECTION 2. HAZARDS IDENTIFICATION

Overall Nature	HAZARDOUS SUBSTANCE. DANGEROUS GOODS		
Chemical Class	PAINT PRODUCT		
Comment	OEL Type : Mixture - See tables in Sections 3 and 8		
Classification reference	SABS0265 (Directives 67/548/EEC or 1999/45/EC):		
Danger symbol	F Xn : highly flammable ,harmful		
R Phrases	R11,22,65,36/37/38,41,66,67		
S Phrases	S02,13,16,26,39,43A,51,62		

Classification reference SANS10234 (1272/2008/EC):

Signal word	Danger
Pictograms	GHS02;GHS08;GHS05

Flam. Liq. 2	H225	Highly flammable liquid and vapour
Acute Tox. 4	H302	Harmful if swallowed
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways
Eye Dam/Irrit 2	H319	Causes serious eye irritation
STOT SE 3	H335	May cause respiratory irritation
Skin Corr/Irrit. 2	H315	Causes skin irritation
Eye Dam/Irrit 1	H318	Causes serious eye damage
	EUH066	Repeated exposure may cause skin dryness or cracking
STOT SE 3	H336	May cause drowsiness or dizziness

HMIS Rating (USA)	2 - 4 - 0 - I (Health-Flam-Reactivity-PPE)
SAPMA Health Rating	2-MODERATE - Temporary or minor injury possible even if treatment given
Inhalation	Irritating, narcotic. Formaldehyde may be released during curing.
Skin	Highly irritating. Risk of dermatitis. May be absorbed through intact skin.
Eyes	Irritating - may cause damage if not given prompt attention.
Ingestion	Harmful. May cause lung damage if swallowed. May have short term environmental effects. Contain, monitor & remove

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS

Name	% m/m	EC Labels	CAS Number	EC Index
n-BUTYL ACETATE	<5 %	-	000123-86-4	607-025-00-1
N-BUTANOL	<12 %	Xn	000071-36-3	603-004-00-6
XYLENE	<10 %	Xn	001330-20-7	601-022-00-9
ACETONE	<7 %	F Xi	000067-64-1	606-001-00-8
PROPAN-2-OL	<0.1 %	F Xi	000067-63-0	603-003-00-0
METHYL ISO BUTYL KETONE	<5 %	F Xn	000108-10-1	606-004-00-4
WHITE SPIRIT (WS3)	<5 %	Xn	064742-88-7	649-405-00-X
TOLUENE	<2 %	F Xn	000108-88-3	601-021-00-3
FORMALDEHYDE	<0.2 %	T	000050-00-0	605-001-00-5

EC Classification reference SABS0265 (Directives 67/548/EEC or 1999/45/EC):

EC Index	Classification
607-025-00-1	R10,66,67
603-004-00-6	Xn : R10,22,37/38,41,67
601-022-00-9	Xn : R10,20/21,38
606-001-00-8	F Xi : R11,36,66,67
603-003-00-0	F Xi : R11,41,67
606-004-00-4	F Xn : R11,20,36/37,66
649-405-00-X	Xn : R65
601-021-00-3	F Xn : R11,38,48/20,63,65,67
605-001-00-5	T : R23/24/25,34,40,43

Classification reference SANS10234 (1272/2008/EC):

EC Index	Classification Hazard Code
607-025-00-1	Flam. Liq. 3;STOT SE 3 H226;H336
603-004-00-6	Flam. Liq. 3;Acute Tox. 4 *;STOT SE 3;Skin Irrit. 2;Eye Dam. 1;STOT SE 3 H226;H302;H335;H315;H318;H336
601-022-00-9	Flam. Liq. 3;Acute Tox. 4 *;Acute Tox. 4 *;Skin Irrit. 2 H226;H332;H312;H315
606-001-00-8	Flam. Liq. 2;Eye Irrit. 2;STOT SE 3 H225;H319;H336
603-003-00-0	Flam. Liq. 2;Eye Dam. 1;STOT SE 3 H225;H318;H336
606-004-00-4	Flam. Liq. 2;Acute Tox. 4 *;Eye Irrit. 2;STOT SE 3 H225;H332;H319;H335
649-405-00-X	Asp. Tox. 1 H304
601-021-00-3	Flam. Liq. 2;Repr. 2;Asp. Tox. 1;STOT RE 2 *;Skin Irrit. 2;STOT SE 3 H225;H361d ***;H304;H373 **;H315;H336
605-001-00-5	Carc. 2;Acute Tox. 3 *;Acute Tox. 3 *;Acute Tox. 3 *;Skin Corr. 1B;Skin Sens. 1 H351;H331;H311;H301;H314;H317

SECTION 4. FIRST AID MEASURES

Inhalation	Move to fresh air. In severe cases seek medical attention.
Skin	Drench with water. Remove contaminated clothing. Use a skin cleaner. In severe cases refer to Doctor.
Eyes	Rinse well with water and seek medical advice if discomfort persists.
Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Highly flammable with toxic fumes.
 Containers can burst in a fire. Can form explosive vapour/air mixture. Static discharge hazard!
 Foam. Dry powder. Fog to cool and control. Do NOT use water jets.
 Cool containers in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5, 8, 13

Contain & collect. Use an inert - NOT sawdust. Keep out of drains & sewers.
 Contain & collect spillage with non – combustible absorbent materials, e.g sand, earth, vermiculite, diatomous earth and place in container for disposal according to local regulations. Clean preferably with detergent; avoid use of solvents

SECTION 7. HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.
 Store below 23°C in a dry, well – ventilated place away from sources of heat, ignition and direct sunlight.
 No open flames. No smoking. No sparks.
 Keep containers cool. Avoid free fall of liquid - use earthing.
 Subject to local bylaws

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	CAS Number	OEL (mg/m3)	OEL (ppm)	STOEL (mg/m3)	STOEL (ppm)	OEL Type
n-BUTYL ACETATE	000123-86-4	710	150	950	200	RL
N-BUTANOL	000071-36-3	150	50	150	50	RL S
XYLENE	001330-20-7	435	100	650	150	RL+ S
ACETONE	000067-64-1	1780	750	3560	1500	RL
PROPAN-2-OL	000067-63-0	980	400	1225	500	RL
METHYL ISO BUTYL KETONE	000108-10-1	205	50	300	75	RL+ S
WHITE SPIRIT (WS3)	064742-88-7	575	100	720	125	RL
TOLUENE	000108-88-3	188	50	560	150	RL+ S
FORMALDEHYDE	000050-00-0	1.5	1.0	2.5	2.0	CL

HMIS Rating (USA)	2 - 4 - 0 - I (Health-Flam-Reactivity-PPE)
SAPMA Rating	2-H-E PPE : Gloves, Respirator and Eye protection
Inhalation	Ensure adequate ventilation or use respiratory protection. Ventilate curing areas/ovens properly.
Skin	AVOID CONTACT. Use impervious gloves, apron and boots.
Eyes	Avoid any form of direct contact. Do not touch eyes with dirty hands or gloves.
Ingestion	Observe the rules of hygiene. Wash before eating or drinking. OEL Type : Mixture - See tables in Sections 3 and 8



SPRAYBOOTH

Spraybooth Type	Spraybooth complying with National Standards
Skin PPE	Nitrile Gloves
Eyes PPE	Faceshield or solvent resistant goggles
Respiratory Protection	Air supplied full facepiece or head covering respirator suitable for organic vapours/particulates

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Silver Viscous liquid
Odour	Pungent
Boiling point	>35°C
Flash point	<23°C
Relative Density	0.948 – 0.988
Viscosity	85 - 90 KU @23°C

SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions. Prone to ignite by static. No reaction with fire-fighting water
 Incompatible with/keep away from : explosives, UN class 2.3 gases, oxidising substances, organic peroxides, toxic and biohazardous substances.

SECTION 11. TOXICOLOGICAL INFORMATION

Name	CAS Number	LD50 Oral	LD50 Skin	LC50 Inhal
n-BUTYL ACETATE	000123-86-4	14000 mg (Rat)		
N-BUTANOL	000071-36-3	750 mg (Rat)	3400 mg (Rabbit)	
XYLENE	001330-20-7	4300 mg (Rat)	>5000 mg (Rabbit)	
ACETONE	000067-64-1	9750 mg (Rat)	20 mg (Rabbit)	
PROPAN-2-OL	000067-63-0	5840 mg (Rat)	16000 mg (Rabbit)	
METHYL ISO BUTYL KETONE	000108-10-1	2080 mg (Rat)		
WHITE SPIRIT (WS3)	064742-88-7	>5000 mg (Rat)		
TOLUENE	000108-88-3	>2000 mg (Rat)	>2000 mg (Rat)	
FORMALDEHYDE	000050-00-0			

SECTION 12. ECOLOGICAL INFORMATION

May have short term environmental effects. Contain, monitor & remove

SECTION 13. DISPOSAL INFORMATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

SECTION 14. TRANSPORT INFORMATION

UN Number	1263		
Shipping Name	PAINT PRODUCT		
IMO Class	3.2	Packing Group	II
Action Code	127		
HazChem	3[Y]E		
Kemler Code	30		

**SECTION 15. REGULATORY INFORMATION**

EC Classification reference SABS0265 (Directives 67/548/EEC or 1999/45/EC):

EC Index Number EC no. : n/a

Classification and Labelling F Xn : highly flammable ,harmful ; R11,22,65,36/37/38,41,66,67 ; S02,13,16,26,39,43A,51,62

Risk and Safety Phrases :

- R11 - Highly Flammable
- R22 - Harmful if swallowed
- R65 - Harmful: May cause lung damage if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin
- R41 - Risk of serious damage to eyes
- R66 - Repeated exposure may cause skin drying or cracking
- R67 - Vapours may cause drowsiness and dizziness.
- S2 - Keep out of reach of children. (Retail sales items)
- S13 - Keep away from food, drink and animal feeding stuffs
- S16 - Keep away from sources of ignition - No smoking
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S39 - Wear eye/face protection
- S43A - In case of fire, use water fog, foam or powder - Do not use water jets!
- S51 - Use only in well ventilated areas
- S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.



Flammable



Harmful

Classification reference SANS10234 (1272/2008/EC):

EC Index Number EC no. : n/a

Classification and Labelling Danger ;GHS02;GHS08;GHS05;H225;H302;H304;H319;H335;H315;H318;EUH066;H336

Hazard and Precautionary Statements :

- H225 - Highly flammable liquid and vapour
- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- EUH066 - Repeated exposure may cause skin dryness or cracking
- H336 - May cause drowsiness or dizziness
- P102 = Keep out of reach of children. : Consumer products
- P210 = Keep away from heat/sparks/open flames/hot surfaces. – No smoking. : Manufacturer/supplier to specify applicable ignition source(s).
- P271 = Use only outdoors or in a well-ventilated area. :
- P280 = Wear protective gloves/protective clothing/eye protection/face protection. : Manufacturer/supplier to specify type of equipment.
- P301+P330+P331 = IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. :
- P305+P351+P338 = IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. :
- P312 = Call a POISON CENTER or doctor/physician if you feel unwell. :
- P313 = Get medical advice/attention. :
- P370+P378 = In case of fire: Use ... for extinction. : ... Manufacturer/supplier to specify appropriate media.



SECTION 16. OTHER INFORMATION

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
IN CASE OF ANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.

Risk (R) phrases associated with components

- R10 : Flammable
- R11 : Highly Flammable
- R20/21 : Harmful by inhalation and contact with the skin
- R22 : Harmful if swallowed
- R23/24/25 : Toxic by inhalation, and in contact with skin, and if swallowed
- R34 : Causes burns
- R36 : Irritating to the eyes
- R36/37 : Irritating to the eyes and respiratory system
- R37/38 : Irritating to respiratory system and skin
- R38 : Irritating to the skin
- R40 : Limited evidence of a carcinogenic effect.
- R41 : Risk of serious damage to eyes
- R43 : May cause sensitisation by skin contact
- R48/20 : Harmful: danger of serious damage to health by prolonged exposure
- R63 : Possible risk of harm to the unborn child.
- R65 : Harmful: May cause lung damage if swallowed.
- R66 : Repeated exposure may cause skin drying or cracking
- R67 : Vapours may cause drowsiness and dizziness.

Hazard (H) phrases associated with components

- H225 : Highly flammable liquid and vapour
- H226 : Flammable liquid and vapour
- H301 : Toxic if swallowed
- H302 : Harmful if swallowed
- H304 : May be fatal if swallowed and enters airways
- H311 : Toxic in contact with skin
- H312 : Harmful in contact with skin
- H314 : Causes severe skin burns and eye damage
- H315 : Causes skin irritation
- H317 : May cause an allergic skin reaction
- H318 : Causes serious eye damage
- H319 : Causes serious eye irritation
- H331 : Toxic if inhaled
- H332 : Harmful if inhaled
- H335 : May cause respiratory irritation
- H336 : May cause drowsiness or dizziness
- H351 : Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
- H361d : Suspected of damaging the unborn child.
- H373 : May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure....

This MSDS conforms with General Administrative Regulations of 6 Sept.1996 (ISO-11014/ANSIZ400.1.1996)
OELs derived from OHS Act Regulations for Dangerous Chemical Substances of 25 Aug.1995 (EH-42)
SAPMA Rating - South African Paint Manufacturers Association Guide to Health Hazards (SABS ARP 006:1991)
All information is given in good faith but without guarantee in respect of accuracy.
No responsibility is accepted for errors or omissions or the consequences thereof.

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