

SAFETY DATA SHEET - REGULATIONS 1994 (CHIP 2)

WE urge the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved.

In the interests of safety you should:

- 1) notify your employees, agents and contractors of the information on this sheet,
- 2) furnish a copy to each of your customers for the product, and
- 3) request your customers to inform their employees and customers as well.

1) Identification and Company

Date revised:	10 02 03	Revision No:	12	Compiler:	Mr F M Jachim
Manufacturer or Supplier					Parasol Inc.
Product Name:					VariKleen
Chemical Characterisation:					Cleaning solution for vinyl, leather and plastics.
Form					Liquid.
Colour					Clear
Odour					Characteristic alcoholic odour

2) Composition

Material	CAS No:	% Content	Risk	Symbol	Risk Phrases
2-Propanol	67-63-0	50		Xi	11,36,67
Ethanol	64-17-5	48		Xi	11
Methanol	67-56-1	2		Xn	20,21,22, 40

3) Hazards Identification

Physical	Highly Flammable. R-11
Adverse Human Effects	Harmful by inhalation, in contact with skin and if swallowed. Irritates the eyes, skin and respiratory tract. Liquid removes the skin's natural oils.

Repeated exposure may cause skin dryness or cracking resulting in dermatitis. Vapours may cause drowsiness, dizziness, coughing, nausea, headaches and vomiting.

4) First Aid Measures

Inhalation

Move the exposed person to fresh air at once.

Get medical attention immediately.

For breathing difficulties oxygen may be necessary.

If rapid recovery does not follow, apply artificial respiration.

Ingestion

Do not induce vomiting.

Rinse mouth thoroughly with water.

If patient is conscious give water to drink.

Obtain medical attention immediately.

Skin

Promptly wash contaminated skin with water.

Promptly remove clothing if soaked through and flush skin with water.

Get medical attention.

Eye

Flush with plenty of water for several minutes.

Make sure to remove any contact lenses before rinsing.

Continue to rinse for at least 15 minutes.

Obtain medical attention.

5) Fire Fighting Measures

Extinguishing Media

Use a dry chemical powder, foam or carbon dioxide extinguisher, sand or earth.

Do not use water in a jet.

Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water.

Use water to keep fire-exposed containers cool. Wear self-contained breathing apparatus and suitable protective clothing.

Unusual Fire & Explosion Hazards

Risk of fire if heated.

May explode in fire.

May form explosive mixtures with the air.

6) Accidental Release Measures

Spillage/Leakage/Gas Leakage

Extinguish all ignition sources.

Avoid sparks, flames, heat and smoking.

Ventilate.

Wear the necessary protective equipment.

Prevent the liquid from spreading with sand earth or inert material.

Shovel up and remove to a safe place.

Disperse vapours with water and flush contaminated area with water.

If leakage cannot be stopped evacuate area.

Ventilate well.

Do not contaminate water sources, sewers or drains.

Transfer liquid to a salvage tank.

Extinguish naked flames.

Ensure adequate ventilation.

Wear protective clothing and breathing apparatus as outlined below.

7) Handling and Storage

Handling Precautions

Ensure adequate positive ventilation to keep concentrations well below hazard levels.

Keep away from heat, sparks and open flames.

Storage Precautions

Containers must not be exposed to direct sunlight or temperatures above 50°C.

Keep in a cool dry, ventilated storage area.

Store away from oxidizing agents.

Store away from oxidising agents.

Avoid exposure to sources of heat or ignition.

Keep containers tightly closed.

Suitable storage containers are mild steel, stainless steel and copper or it's alloy

Do not use aluminium or it's alloy

Avoid build up of static electricity.

8) Exposure Controls and Personal Protection

Name	CAS No.	ST D	LT EXP (8 hrs)	ST EXP (15 min)
2-Propanol	67-63-0	OE S	400 ppm (SK)	500 ppm (SK)
Ethanol	64-17-5	OE S	1000 ppm (SK)	No Std
Methanol	67-56-1	OE S	200 ppm (SK)	250 ppm (SK)

Comments

OES = Occupational Exposure Standard

SUP = Supplier's Recommendation

SK = Can be absorbed through skin

Protective Equipment

Wear goggles giving complete protection to eyes.

Wear nitrile rubber gloves.

Wear overalls.

Avoid contact with liquid.

Wear an approved breathing apparatus when concentrations above 100 ppm are present.

Ventilation	Provide adequate general and local exhaust ventilation.
Respirators	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
Protective Gloves	Use protective nitrile rubber gloves.
Eye Protection	Use approved safety goggles or face shield.
Protective Clothing	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Industrial Hygiene Work Routine	DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

9) Physical and Chemical Properties

Appearance	Liquid
Odour	Characteristic alcoholic
Colour	Clear colourless
Change in Physical State	Melting point below - 101°C Boiling point 79°C
Density	0.805 g/ml @ 20°C
Vapour pressure	4.99kpa @ 20°C
Solubility in water	miscible
Flash Point	12.5°C Closed Cup
Ignition Temperature	400°C
Flammability Limit (upper %)	15.8
Flammability Limit (lower %)	2.9

10) Stability and Reactivity

Hazardous Decomposition	
Products	Fire creates: Vapours / Gases / Carbon Monoxide (CO) & Carbon dioxide (CO ₂) Fumes
Hazardous Reactions	No hazardous decomposition products when stored and used correctly.
Conditions To Avoid	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents, strong alkali, and strong mineral acids.

11) Toxicological Information

Health Hazards, General	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Gas or vapour I high concentrations may irritate respiratory system. Gas or vapour displaces oxygen available for breathing (asphyndent). Inhalation and ingestion may produce general narcotic effects similar to drunkenness, central nervous system depression, drowsiness, dizziness, disorientation, behavioural changes, and hypertension.
Skin	Product has a de-fatting effect on the skin. Prolonged or repeated exposure may cause dermatitis and secondary infections.
Eyes	Irritating to the eyes. Spray and vapour in the eyes may cause irritation and smarting. May cause severe irritation to eyes. Eye irritant causes transient corneal damage.
Route of entry	Inhalation. Skin and /or eye contact.

11) Ecological Information

Mobility	Soluble in water, product is volatile and will partition to the air phase.
Degradability	Biologically degradable. BOD ₂₀ = > 78% ThOD
Bioaccumulative Potential	Slight potential to bioaccumulate.
Aquatic Toxicity	LC ₅₀ 96hr (fathead minnow) – 9600mg/l

EC50 24hr (dphnia) – 10000 mg/l

Do not allow to escape into water, wastewater drains or soil.

12) Disposal Considerations

Disposal via an authorized waste disposal contractor to an approved waste site, in accordance with all local and national requirements/regulations.

Used containers must not be cut up or punctured until completely purged of product residues.

13) Transport Information

LITRES:

ADR:

ADR:	UN Number	1263
ADR:	Proper Shipping Name	Paint related material
ADR:	Class	3
ADR:	Packing Group	II
ADR:	Classification Code	F1
ADR:	Transport Category	2
ADR:	Hazard Identification Number	33

Shipping:

IMDG:	UN Number	1263
IMDG:	Proper Shipping Name	Paint related material
IMDG:	Class	3
IMDG:	Packing Group	II
IMDG:	EmS	F-E, S-E

Air Transport:

IATA:	UN Number	1263
IATA:	Proper Shipping Name	Paint related material
IATA:	Class	3
IATA:	Packing Group	II
IATA:	Packing Instruction	305

14) Regulatory Information

Risk Phrases

R-11	Highly Flammable.
R-20	Harmful by inhalation
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R-36	Irritating to eyes.
R-40	Possible risk of irreversible effects.
R-67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S-2	Keep out of reach of children.
S-7	Keep container tightly closed.
S-16	Keep away from heat and sources of ignition.
S-21	No Smoking.
S-24	Avoid contact with skin.
S-25	Avoid contact with eyes.
S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- S-36/37 Wear suitable protective clothing and gloves.
- S-45 In case of accident or if you feel unwell, seek medical advice immediately.

UK Regulatory References:

Chemicals (Hazard Information and Packaging for Supply)
Regulations 1994 (CHIP 2)

Chemicals (Hazard Information and Packaging for Supply)
Regulations 1994 (CHIP 2) Regulation 6

Chemicals (Hazard Information and Packaging for Supply)
(Amendment) Regulations 1996 (CHIP 96)

Chemicals (Hazard Information and Packaging for Supply)
(Amendment) Regulations 1997 (CHIP 97)

Chemicals (Hazard Information and Packaging for Supply)
(Amendment) Regulations 1998 (CHIP 98)

Chemicals (Hazard Information and Packaging for Supply)
(Amendment) Regulations 1999 (CHIP 99)

Chemicals (Hazard Information and Packaging for Supply)
(Amendment) (No. 2) Regulations 1999 (CHIP 99(2))

IATA - Dangerous Goods Regulations
IMDG - International Maritime Dangerous Goods Code

ADR - Dangerous Goods Code

UK Publication References:

Approved Guide to the Classification and Labelling of
Substances and Preparations Dangerous for Supply.

(Guidance on Regulations) (Fourth Edition)

Safety Data Sheets for Substances and Preparations Dangerous for Supply.
(Approved Code of Practice) (Second Edition)

Approved Supply List - Information Approved for the
Classification and Labelling of Substances and Preparations Dangerous for
Supply. (Fifth Edition)

Carriage of Dangerous Goods - Guidance for Consignors of Dangerous Goods.

Occupational Exposure Limits.

UK Environmental References:

Control of Pollution (Special Waste Regulations) Act

Rivers (Prevention of Pollution) Act

UK Statutory References:

Chemicals (Hazard Information and Packaging for Supply)

Regulations 1994 (CHIP 2)

15) Other Information

Emergency Action

Notify Police and Fire Brigade immediately.

16) Disclaimer

Disclaimer

The information accumulated herein is believed to be accurate and reliable as of the date above, however Parasol Inc. makes no representation, warranty or guarantee nor assumes any legal responsibility as to its accuracy, reliability or completeness. Ultimate determination of suitability for intended use is the responsibility of the user.

10 02 03 Rev. 12

in accordance with EU Directives