

**D-SOLVE****K070****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product Code K070

Manufacturer : Selden Research Limited  
 Staden Lane Business Park, Staden Lane,  
 Buxton, Derbyshire. SK17 9RZ  
 United Kingdom

Product Name D-SOLVE

Tel : 01298 26226  
 Fax : 01298 26540  
 Email : sales@selden.co.uk

**2 HAZARDS IDENTIFICATION**

R12 Extremely flammable., R43 May cause sensitisation by skin contact., R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PRESSURISED CONTAINER - increase in temperature to greater than 50C will cause internal pressure to rise potentially causing bursting/explosion.

Classification R43. F+;R12. N;R51/53.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EINICS No.	CAS No.	Content	Classification
BUTANE	203-448-7	106-97-8	5 - 10%	F+;R12
Limonene	227-813-5	5989-27-5	1 - 5%	Xn;R65. Xi;R38. N;R50/53. R10,R43.

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES**

INHALATION	Move the exposed person to fresh air at once., Keep the affected person warm and at rest. Get prompt medical attention., For breathing difficulties oxygen may be necessary.
INGESTION	Rinse mouth thoroughly., Drink plenty of water., Get medical attention.
SKIN CONTACT	Wash the skin immediately with soap and water., Get medical attention if any discomfort continues.
EYE CONTACT	Promptly wash eyes with plenty of water while lifting the eye lids., Continue to rinse for at least 15 minutes., Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

EXTINGUISHING MEDIA	Use:, Powder., Dry chemicals, sand, dolomite etc., Water spray, fog or mist.
SPECIAL FIRE FIGHTING PROCEDURES	Containers close to fire should be removed or cooled with water., Use water to keep fire exposed containers cool and disperse vapours.
UNUSUAL FIRE & EXPLOSION HAZARDS	Aerosol cans may explode in a fire.

**6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	Wear necessary protective equipment., Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate., If leakage cannot be stopped, evacuate area.
ENVIRONMENTAL PRECAUTIONS	Any spillage needs to be contained and not allowed to enter water courses

**7 HANDLING AND STORAGE**

USAGE PRECAUTIONS	Keep away from heat, sparks and open flame., Avoid spilling, skin and eye contact., Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.
USAGE DESCRIPTION	Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes	
BUTANE	WEL	600 ppm	1450 mg/m <sup>3</sup>	750 ppm	1810 mg/m <sup>3</sup>

**PROTECTIVE EQUIPMENT**

ENGINEERING MEASURES	Provide adequate general and local exhaust ventilation.
HAND PROTECTION	Use protective gloves.
EYE PROTECTION	Wear approved safety goggles.
OTHER PROTECTION	General workwear only

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Aerosol
COLOUR	colourless
ODOUR	Characteristic, Solvent.
PHYSICAL DATA COMMENTS	Information given relates to total aerosol container contents.
RELATIVE DENSITY	0.87 @ 20 C

pH-VALUE, CONC. SOLUTION	Not applicable
FLASH POINT (°C)	- 74 N/A.
AUTO IGNITION TEMPERATURE (°C)	+ 405
FLAMMABILITY LIMIT - LOWER(%)	1.8
FLAMMABILITY LIMIT - UPPER(%)	10.0

**10 STABILITY AND REACTIVITY**

STABILITY	Stable under normal temperature conditions.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition., Increase in temperature to greater than 50 degrees will cause rise in internal pressure with likelihood of bursting/explosion.
HAZARDOUS DECOMPOSITION PRODUCTS	Fire creates:, Toxic gases/vapours/fumes of:, Carbon monoxide (CO) , Carbon dioxide (CO2).

**11 TOXICOLOGICAL INFORMATION**

INHALATION	High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting., Gas or vapour displaces oxygen available for breathing (asphyxiant) , Unconsciousness.
SKIN CONTACT	Prolonged and frequent contact may cause redness and irritation., Product has a defatting effect on skin.
EYE CONTACT	Irritation of eyes and mucous membranes.

**12 ECOLOGICAL INFORMATION**

ECOTOXICITY	The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
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**13 DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS	Empty containers must not be burned because of explosion hazard., Dispose of waste and residues in accordance with local authority requirements.
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**14 TRANSPORT INFORMATION**

UN NO. ROAD	1950
UK ROAD CLASS	2
ADR CLASS NO.	2 Class Code:5F Label: 2.1
ADR CLASS	Class 2: Gases
ADR PACK GROUP	Not assigned
PROPER SHIPPING NAME	AEROSOLS, FLAMMABLE
UN NO. SEA	1950
IMDG CLASS	2.1
IMDG PACK GR.	N/A
UN NO. AIR	1950
AIR CLASS	2.1
AIR PACK GR.	N/A

**15 REGULATORY INFORMATION**

LABELLING	  
CONTAINS	Extremely Flammable (F+) Irritant (Xi) Dangerous for the Environment (N) Limonene
RISK PHRASES	R12 Extremely flammable., R43 May cause sensitisation by skin contact., R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES	S16 Keep away from sources of ignition - No smoking., S23 Do not breathe vapour/spray., S36/37/39 Wear suitable protective clothing, gloves and eye/face protection., S51 Use only in well-ventilated areas., A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use., A2 Do not spray on a naked flame or any incandescent material., S2 Keep out of the reach of children
STATUTORY INSTRUMENTS	Control of Substances Hazardous to Health., Chemicals (Hazard Information and Packaging) Regulations.
APPROVED CODE OF PRACTICE	Classification and Labelling of Substances and Preparations Dangerous for Supply.
GUIDANCE NOTES	Workplace Exposure Limits EH40., Introduction to Local Exhaust Ventilation HS(G)37., CHIP for everyone HSG(108).

**16 OTHER INFORMATION**

GENERAL INFORMATION	The following risk phrases relate to the raw materials in the product and not the product itself-
REVISION DATE	07/03/2011
REV. NO./REPL. SDS GENERATED	12
RISK PHRASES IN FULL	R12 Extremely flammable.   R10 Flammable., R65 Harmful: may cause lung damage if swallowed., R38 Irritating to skin., R43 May cause sensitisation by skin contact., R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.