

SDI Limited

Version No: 6.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830)

Issue Date: 08/04/2016 Print Date: 12/04/2016 Initial Date: Not Available L.REACH.GBR.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

.1.Product Identifier			
Product name	go!		
Synonyms	Not Available		
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains acetor	ne)	
Other means of identification	Not Available		Na-tree &
2. Relevant identified us	es of the substance or mixture and u	ses advised against	
Relevant identified uses	Professional dental use: For bonding of compos		Mark Company of the C
Uses advised against	Not Applicable		40 41 44 12 04 14 EVEN
The second secon			the state of the s
3. Details of the supplier	of the safety data sheet		
Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 German
Telephone	+61 3 8727 7111 (Business Hours)	+55 11 3092 7100	+49 0 2203 9255 0
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au
Registered company name	SDI (North America) Inc.		200 C C C C C C C C C C C C C C C C C C
Address	1279 Hamilton Parkway IL Itasca 60143 United S	Natae	the expectation of the state of
Telephone	+1 630 361 9200 (Business hours)	1000 (man a) 100 m	
Fax	Not Available	the same of the sa	
Website	Not Available		
Email	USA.Canada@sdi.com.au		
Control of the Contro		- M. M. W.	
4. Emergency telephone	number		
Association / Organisation	SDI Limited	Not Available	Not Available
Emergency telephone numbers	+61 3 8727 7111	Not Available	Not Available
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available
Association / Organisation	Not Available		
Emergency telephone numbers	+61 3 8727 7111		
Other emergency telephone numbers	Not Available		
1.Classification of the su	bstance or mixture		
Considered a dangerou	s mixture according to Directive 1	999/45/EC, Reg. (EC) No 1272/2008 (if	applicable) and their amendments

Issue Date: 08/04/2016 Print Date: 12/04/2016

R11 Highly flammable. R22 Harmful if swallowed.

R36/38

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

May cause SENSITISATION by skin contact.

Legend:

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Classification according to regulation (EC) No 1272/2008 [CLP] [1]

Flammable Liquid Category 2, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Chronic Aquatic Hazard Category 3

Legend:

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

### 2.2. Label elements



R43



SIGNAL WORD | DANGER

Hazard	sta	teme	ent	( <b>s</b> )
--------	-----	------	-----	--------------

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin imitation.
H319	Causes serious eye imitation.
H317	May cause an allergic skin reaction.
 H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

### Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P271	Use only outdoors or in a welf-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work dothing should not be allowed out of the workplace.
	occupants lated work document on the another out of the workplace.

# Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/fit you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		A CONTRACT OF THE PERSON OF TH
P403+P233	Store in a well-ventilated place. Keep container tightly closed.		M - M - M - M - M - M - M - M - M - M -

# Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

Cumulative effects may result following exposure\*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

### 3.2 Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation (EC) No 1272/2008 [CLP]
1.67-64-1 2.200-662-2 3.606-001-00-8 4.01-2119498062-37-XXXX, 01-2119471330-49-XXXX	30-50	acetone	R11, R36, R66, R67 <sup>[2]</sup>	Flammable Liquid Category 2, Eye Initation Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects); H225, H319, H336, EUH066 [3]
Not Available     Not Available     Not Available     Not Available     Not Available	30-50	acrylic monomer	Not Applicable	Not Applicable
Not Available     Not Available     Not Available     Not Available     Not Available	10-25	Ingredients determined not to be hazardous	Not Applicable	Not Applicable
Legend:		ion by vendor; 2. Classification drawn from C&L.	on drawn from EC Directive 67/548/E	EC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

# SECTION 4 FIRST AID MEASURES

### 4.1. Description of first aid measures

If skin	contact	occurs:

- Immediately remove all contaminated clothing, including footwear.
   Flush skin and hair with running water (and soap if available).
   Seek medical attention in event of irritation.

- If this product comes in contact with the eyes:

  Immediately hold eyelids apart and flush the eye continuously with running water.

  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

  Transport to hospital or doctor without delay.
- General
  - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If furnes or combustion products are inhaled remove from contaminated area.

  - Lay patient down. Keep warm and rested.
     Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
     Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if

  - Transport to hospital, or doctor.
     Seek medical attention.

# Eye Contact

### If this product comes in contact with the eyes:

- It is product comes in contact with the eyes:

  Inmediately hold eyelids apart and flush the eye continuously with running water.

  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

  Transport to hospital or doctor without delay.

- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### Skin Contact

- If skin contact occurs: Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

### Inhalation

- If fumes or combustion products are inhaled remove from contaminated area.
   Lay patient down. Keep warm and rested.
   Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
   Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if
- Transport to hospital, or doctor. Seek medical attention.

# Ingestion

4.2 Most important symptoms and effects, both acute and delayed See Section 11

go!

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

Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Alcohol stable foam.
- Dry chemical powder
- BCF (where regulations permit).
   Carbon dioxide.
- Water spray or fog Large fires only.

### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### 5.3. Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course.
- Fire Fighting
- Consider evacuation (or protect in place).
  Fight fire from a safe distance, with adequate cover
  - If safe, switch off electrical equipment until vapour fire hazard removed
  - Use water delivered as a fine spray to control the fire and cool adjacent area.
  - Avoid spraying water onto liquid pools.

  - Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location.
  - If safe to do so, remove containers from path of fire.
  - Liquid and vapour are highly flammable.
  - Severe fire hazard when exposed to heat, flame and/or oxidisers.
- Fire/Explosion Hazard
- Vapour may travel a considerable distance to source of ignition.
  - eating may cause expansion or decomposition leading to violent rupture of containers
  - On combustion, may emit toxic furnes of carbon monoxide (CO).
  - Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

# Minor Spitls

- Remove all ignition sources.
- Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent mate
- Collect residues in a flammable waste container
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.

  Prevent, by any means available, spillage from entering drains or water course.

  Consider evacuation (or protect in place).
- No smoking, naked lights or ignition sources.
- Increase ventilation. Major Spills
  - Stop leak if safe to do so.
  - Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or vermiculite.

  - Use only spark-free shovels and explosion proof equipment.
  - Collect recoverable product into labelled containers for recycling.
  - Absorb remaining product with sand, earth or vermiculite.
  - Collect solid residues and seal in labelled drums for disposal.
  - Wash area and prevent runoff into drains.
  - If contamination of drains or waterways occurs, advise emergency services.

# 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Safe handling

Avoid all personal contact, including inhalation.

- Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.
- Prevent concentration in hollows and sumps
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights, heat or ignition sources.
- When handling, DO NOT eat, drink or smok
- Vapour may ignite on pumping or pouring due to static electricity. DO NOT use plastic buckets.
- Earth and secure metal containers when dispensing or pouring product.
- Use spark-free tools when handling.
- Avoid contact with incompatible materials
- Keep containers securely sealed.
- Avoid physical damage to containers.

  Always wash hands with soap and water after handling.
- Work clothes should be laundered separately
- Use good occupational work practice
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

### Fire and explosion protection

See section 5

Other information

Do not store in direct sunlight.

Store between 2 and 8 deg C

### 7.2. Conditions for safe storage, including any incompatibilities

▶ DO NOT repack. Use containers supplied by manufacturer only.

Material name

- Avoid reaction with oxidising agents, bases and strong reducing agents.
   Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Storage incompatibility

### 7.3. Specific end use(s)

See section 1.2

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient

### 8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

Source

OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

UK Workplace Exposure Limits (WELs)	acetone	Acetone	1210 mg/m3 / 500 ppm	3620 mg/m3 / 1500 ppm	Not Available	Not Available
European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)	acetone	Acetone	1 210 mg/m3 / 500 ppm	Not Available	Not Available	Not Available
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	acetone	Acetone	1210 mg/m3 / 500 ppm	Not Available	Not Available	Not Available
EMERGENCY LIMITS						
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3	
acetone	Acetone		Not Available	Not Available	Not Availab	le
Ingredient	Original IDLH			Revised IDLH		
acetone	20,000 ppm			2,500 [LEL] ppm		THE STATE SHOWING AND ADDRESS.
acrylic monomer	Not Available			Not Available		
Ingredients determined not to	Not Available			Not Available		

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# MATERIAL DATA

### 8.2. Exposure controls

engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

STEL

Peak

Notes

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. 8.2.1. Appropriate

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match ne particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should

be explosion-resistant.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant: Air Speed: 0.25-0.5 m/s solvent, vapours, degreasing etc., evaporating from tank (in still air). (50-100 f/min.) 0.5-1 m/s rosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) f/min.) 1-2.5 m/s direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of (200-500 rapid air motion)

Within each range the appropriate value depends on:

Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents 2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity 3: Intermittent, low production. 3: High production, heavy use 4: Large hood or large air mass in motion 4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction atus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

### 8.2.2. Personal protection











Full face shield may be required for supplementary but never for primary protection of eyes.

# Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

### Skin protection

See Hand protection below

# Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
   Wear safety footwear or safety gumboots, e.g. Rubber
- Rubber Gloves **Body protection**

See Other protection below

## Other protection

- Overalls. PVC Apron.
- PVC protective suit may be required if exposure severe.
- vash unit.
- Ensure there is ready access to a safety shower.

### Thermal hazards

Not Available

# Respiratory protection

Type AX Filter of sufficient capacity, (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	AX-2	AX-PAPR-2 ^
up to 10 x ES	-	AX-3	1-
10+ x ES		Air-line**	

- \* Continuous Flow; \*\* Continuous-flow or positive pressure demand
- ^ Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### 8.2.3. Environmental exposure controls

See section 12

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

go!

Appearance	Orange liquid with slightly characteristic odour, insoluble in wa	tter.	For the second restrict to the state of the second
Physical state	Liquid	Relative density (Water = 1)	0.93
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	~2	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Gels before boiling	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	*-20 (acetone)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	3	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# 9.2. Other information

Not Available

# SECTION 10 STABILITY AND REACTIVITY

40.4 Danash ita	0					10.
10.2.Chemical stability	Unstable in the presence of incompatible m     Product is considered stable.     Hazardous polymensation will not occur.		***			
10.3. Possibility of hazardous reactions	See section 7.2					
10.4. Conditions to avoid	See section 7.2					
10.5. Incompatible materials	See section 7.2					
10.6. Hazardous decomposition products	See section 5.3			* * * * * * * * * * * * * * * * * * * *		
	t of the					

# SECTION 11 TOXICOLOGICAL INFORMATION

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.		
Ingestion	Accidental ingestion of the material may be harmful; animal of damage to the health of the individual.	experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious	
	skin prior to the use of the material and ensure that any exter	ions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the nal damage is suitably protected.	
Skin Contact  Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial n direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hour twenty-four hours or more after the end of the exposure period. Skin initiation may also be present after prolonged or repeater form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oed blistering (vesticulation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema (sponaiosis) and intracellular oedema of the epidermis.		n applied to the healthy intact skin of animals, for up to four hours, such inflammation being present do. Skin imitation may also be present after prolonged or repeated exposure; this may result in a en characterised by skin redness (erythema) and swelling (cedema) which may progress to	
Еуе	ocular lesions which are present twenty-four hours or more a Repeated or prolonged eye contact may cause inflammation temporary impairment of vision and/or other transient eye dar	characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis);	
Chronic	of producing a positive response in experimental animals.	al is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or ational exposure may produce cumulative health effects involving organs or biochemical systems.	
	TOXICITY	IRRITATION	
gol	Not Available	Not Available	
	TOXICITY	IRRITATION	
acetone	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (human): 500 ppm - irritant	

go!

Inhalation (rat) LC50: 50.1 mg/L/8 hr[2] Eye (rabbit): 20mg/24hr -moderate Oral (rat) LD50: 5800 mg/kgE<sup>[2]</sup> Eye (rabbit): 3.95 mg - SEVERE

Skin (rabbit): 500 mg/24hr - mild Skin (rabbit):395mg (open) - mild

ACETONE

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

The material may cause skin imitation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. for acetone:

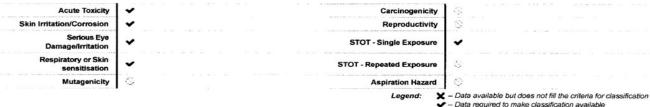
The acute toxicity of acetone is low. Acetone is not a skin imitant or sensitiser but is a defatting agent to the skin. Acetone is an eye imitant. The subchronic toxicity of acetone has been examined in mice and rats that were administered acetone in the drinking water and again in rats treated by oral gavage. Acetone-induced increases in relative kidney weight changes were observed in male and female rats used in the oral 13-week study. Acetone treatment caused increase in the relative liver weight in male and female rats that were not associated with histopathologic effects and the effects may have been associated with in the relative liver weight in make and remaie rats that were not associated with histoparnologic entencis and the entects may have been associated with microsomal enzyme induction. Haematologic effects consistent with macrocytic anaemia were also noted in male rats along with hyperpigmentation in the spleen. The most notable findings in the mice were increased liver and decreased spleen weights. Overall, the no-observed-effect-levels in the drinking wate study were 1% for male rats (900 mg/kg/d) and male mice (2258 mg/kg/d), 2% for female mice (5945 mg/kg/d), and 5% for female rats (3100 mg/kg/d). For developmental effects, a statistically significant reduction in foetal weight, and a slight, but statistically significant increase in the percent incidence of later resorptions were seen in mice at 15,665 mg/m3 and in rats at 26,100 mg/m3. The no-observable-effect level for developmental toxicity was determined to be 5220 mg/m3 for both rats and mice.

5220 mg/ms for both rats and mice.

Teratogenic effects were not observed in rats and mice tested at 26,110 and 15,665 mg/m3, respectively. Lifetime dermal carcinogenicity studies in mice treated with up to 0.2 mL of acetone did not reveal any increase in organ tumor incidence relative to untreated control animals.

The scientific literature contains many different studies that have measured either the neurobehavioural performance or neurophysiological response of humans exposed to acetone. Effect levels ranging from about 600 to greater than 2375 mg/m3 have been reported. Neurobehavioral studies with acetone-exposed employees have recently shown that 8-hr exposures in excess of 2375 mg/m3 were not associated with any dose-related changes in response time, vigilance, or t span scores. Clinical case studies, controlled human volunteer studies, animal research, and occupational field evaluations all indicate that the NOAEL for this effect is 2375 mg/m3 or greater.

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -



Data required to make classification available

### - Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

### 12.1. Toxicity

Legend:

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
acetone	EC50	384	Crustacea	97.013mg/L	3
acetone	EC50	48	Crustacea	>100mg/L	4
acetone	EC50	96	Algae or other aquatic plants	20.565mg/L	4
acetone	LC50	96	Fish	>100mg/L	4
acetone	NOEC	96	Algae or other aquatic plants	4.950mg/L	4

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	The state of the second	The state of the s
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

# 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation		
acetone	LOW (BCF = 0.69)		

### 12.4. Mobility in soil

Ingredient	Mobility		
a transfer of the same of the	March as a design of the contract of the contr	The state of the s	
acetone	HIGH (KOC = 1.981)		

### 12.5.Results of PBT and vPvB assessment

	P		В	Т
Relevant available data	Not Available	a de la composición del composición de la compos	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	ent on the state and	Not Available	Not Available

### 12.6. Other adverse effects

No data available

# **SECTION 13 DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Product / Packaging

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
   In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
   Where in doubt contact the responsible authority.

Bury residue in an authorised landfill.

Consult State Land Waste Management Authority for disposal.

Waste treatment options Sewage disposal options

Not Available Not Available

# SECTION 14 TRANSPORT INFORMATION

disposal

# Labels Required



Marine Pollutant

HAZCHEM -3YE

### Land transport (ADR)

14.1.UN number
14.2.Packing group
14.3.UN proper shipping

1993

FLAMMABLE LIQUID, N.O.S. (contains acetone)

### 14.4.Environmental hazard Not Applicable

class(es)

Class 3

Subrisk Not Applicable

14.6. Special precautions for

Hazard identification (Kemler) 33 Classification code F1

Hazard Label 3

Special provisions

274 601 640C 640D

1L

Limited quantity

## Air transport (ICAO-IATA / DGR)

14.1. UN number 14.2. Packing group 14.3. UN proper shipping

1993 11

Flammable liquid, n.o.s. \* (contains acetone)

14.4. Environmental hazard

# Not Applicable

14.5. Transport hazard class(es) ICAO/IATA Class

ICAO / IATA Subrisk Not Applicable

ERG Code

ЗН

3

14.6. Special precautions for

Special provisions Cargo Only Packing Instructions A3 364 60 L

Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions

Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions 5L

Issue Date: 08/04/2016 Print Date: 12/04/2016

Passenger and Cargo Limited Maximum Qty / Pack 1L Sea transport (IMDG-Code / GGVSee) 14.1. UN number 1993 14.2. Packing group 14.3. UN proper shipping FLAMMABLE LIQUID, N.O.S. (contains acetone) 14.4. Environmental hazard Not Applicable IMDG Class 3 14.5. Transport hazard class(es) IMDG Subrisk Not Applicable **EMS Number** F-E. S-E 14.6. Special precautions for Special provisions user Limited Quantities Inland waterways transport (ADN) 14.1. UN number 1993 14.2. Packing group 14.3. UN proper shipping FLAMMABLE LIQUID, N.O.S. (contains acetone) 14.4. Environmental hazard Not Applicable 14.5. Transport hazard Not Applicable Classification code 274; 601; 640C; 640D Special provisions 14.6. Special precautions for 1L Limited quantity Equipment required PP, EX, A

### Transport in bulk according to Annex II of MARPOL and the IBC code

Fire cones number

Not Applicable

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9.

# SECTION 15 REGULATORY INFORMATION

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

# ACETONE(67-64-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)
EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)

European Trade Union Confederation (ETUC) Priority List for REACH Authorisation

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Bulgarian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Czech)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

(Dutch)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Finnish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (French)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (German)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Greek)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Hungarian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

(Italian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Latvian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Lithuanian)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Polish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Portuguese)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovak)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

(Slovenian)
European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs)

(Spanish)

European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Swedish)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

UK Workplace Exposure Limits (WELs)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC,

(Romanian)

Issue Date: 08/04/2016 Print Date: 12/04/2016

1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

# ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier	
acetone	67-64-1	606-001-00-8	01-2119498062-37-XXXX, 01-211	9471330-49-XXXX
Harmonisation (C&L Inventory)	Hazard Class and Ca	tegory Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Flam. Liq. 2, Eye Imt. 2	2, STOT SE 3	GHS07, GHS02, Dgr	H225, H319, H336
2	Flam. Liq. 2, Eye Imit. 2, STOT SE 3, Flam. Liq. 3, Not Classified, Eye Imit. 2A		Dgr, GHS01, Wng, GHS08, GHS06	H225, H319, H336, H371, H228, H315, H335, H312, H332, H340, H302
1	Flam. Liq. 2, Eye Irrit. 2	2, STOT SE 3	GHS07, GHS02, Dgr	H225, H319, H336
2	Flam. Liq. 2, Eye Irrit. 2	2, STOT SE 3	GHS07, GHS02, Dgr	H225, H319, H336

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory	Status		
Australia - AICS	Y	THE RESERVE AND A STATE OF SECURITION OF THE SECURITION OF	manufactured trees to the same of the same
Canada - DSL	Υ		
Canada - NDSL	N (acetone)		
China - IECSC	Y		* # * * * * * * * * * * * * * * * * * *
Europe - EINEC / ELINCS / NLP	Υ		
Japan - ENCS	Y		and a second sec
Korea - KECI	Υ		
New Zealand - NZIoC	Y		
Philippines - PICCS	Y		
USA - TSCA	Y		
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are no	ot on the inventory and are not exempt from listing(see specific ingred	fients in brackets)

# SECTION 16 OTHER INFORMATION

## Full text Risk and Hazard codes

H228	Flammable solid.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H335	May cause respiratory imitation.	
H340	May cause genetic defects.	
H371	May cause damage to organs.	THE STATE OF THE S
R36	Irritating to eyes.	
R66	Repeated exposure may cause skin dryness and cracking.	to the second contract the second

# Other information

# DSD / DPD label elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	Xn
SAFETY ADVICE	
S02	Keep out of reach of children.
\$09	Keep container in a well ventilated place.
S13	Keep away from food, drink and animal feeding stuffs.
S16	Keep away from sources of ignition. No smoking.
S23	Do not breathe gas/fumes/vapour/spray.
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

\$29	Do not empty into drains.
S33	Take precautionary measures against static discharges.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S39	Wear eyerface protection.
\$40	To clean the floor and all objects contaminated by this material, use water and detergent.
\$41	In case of fire and/or explosion, DO NOT BREATHE FUMES.
S43	In case of fire use the extinguishing media detailed in section 5 of this SDS.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well ventilated areas.
S56	Dispose of this material and its container at hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms EN 1382 Footwear protecting against chemicals EN 138 Respiratory protective devices

### **Definitions and abbreviations**

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit

STEL: Short term exposure Limit
TEEL: Temporary Emergency Exposure Limit,
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAEL: No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information: Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development

Contact: Technical Director