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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.06.2017

Version number 75

Revision: 26.06.2017

 1.1 Product identifier Trade name: SPRING@ PRO FLORIST SPRAY ADHESIVE DK2 400 ML Article number: SPR057B 1.2 Relevant identified uses of the substance or mixture and uses advised against Sector of Use SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Product category PC1 Adhesives, sealants Process category PROC1 Industrial spraying Environmental release category ERCSM Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERCSM Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) Application of the substance / the mixture Glue' Sising agent 1.3 Details of the substance / the mixture Glue' Sising agent 1.3 Details of the substance / the mixture Glue' Sising agent 1.3 Details of the substance in the water of the safety data sheet Manufacturer/Supplier: SPRNG FROM HOLLAND BV Cornels: VeroIneweg 12-14 2171 KV Savsenheim The Netherlands Tet: +31 252 231651 Email: info@springfromholland.nl StertTon 2: Hazards identification Sterton obtainable from: Department Product Safety 1.4 Emergency telephone number: +31 (0)252 231651(09:00h - 17:00h) Sterton 1: H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. fully fully accuses skin irritation. Stort J: H315 Causes serious eyi irritation. Stort J: H316 Causes serious eyi irritation. Stort J: H316 Causes serious eyi irritation. Stort J: Alas dia May cause drowsiness or diziness. Aquatic Chronic 3 H412 Hanful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008			
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The product is classified and labelled according to the CLP regulation.	Further information 1.4 Emergency SECTION 2: 2.1 Classification Classification a Classification a GHSC Aerosol 1 Charles GHSC Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Aquatic Chronic	Ation obtainable telephone numb Hazards iden n of the substan ccording to Reg 02 flame H222-H229 07 H315 H319 H336	e from: Department Product Safety ber: +31 (0)252 231651(09:00h - 17:00h) ntification ace or mixture ulation (EC) No 1272/2008 Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
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Trade name: SPRING® PRO FLORIST SPRAY ADHESIVE DK2 400 ML

· Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labelling: acetone

Naphtha (petroleum), hydrotreated light

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- *P211* Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P260 Do not breathe spray.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

• Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-64-1	acetone	25-<50%
EINECS: 200-662-2	🛞 Flam. Liq. 2, H225	
Index number: 606-001-00-8	🚯 Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119471330-49		
EC number: 921-024-6	Naphtha (petroleum), hydrotreated light	20-<25%
Reg.nr.: 01-2119475514-35	🐵 Flam. Liq. 2, H225	
	🗞 Asp. Tox. 1, H304	
	Aquatic Chronic 2, H411	
	🚯 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 115-10-6	dimethyl ether	20-<25%
EINECS: 204-065-8	🚸 Flam. Gas 1, H220	
Index number: 603-019-00-8	Press. Gas C, H280	
Reg.nr.: 01-2119472128-37		
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		(Contd. of pa
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220 Press. Gas C, H280	5-<10
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane Tiam. Gas 1, H220 Press. Gas C, H280	5-<10
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1, H220 Press. Gas C, H280	5-<10
CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30	pentane Flam. Liq. 1, H224 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	<2.59
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	<2.59
CAS: 78-78-4 EINECS: 201-142-8 Index number: 601-006-00-1	isopentane Flam. Liq. 1, H224 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	<2.59

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters -
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

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- Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/ surface or ground water. • 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

· 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.
- Keep ignition sources away Do not smoke.
- Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 2 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingre	dients with limit values that require monitoring at the workplace:
67-64	-1 acetone
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm
	Long-term value: 1210 mg/m³, 500 ppm
115-1	0-6 dimethyl ether
WEL	Short-term value: 958 mg/m ³ , 500 ppm
	Long-term value: 766 mg/m³, 400 ppm
106-9	7-8 butane
WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)
109-6	6-0 pentane
WEL	Long-term value: 1800 mg/m³, 600 ppm
78 - 93	-3 butanone
WEL	Short-term value: 899 mg/m ³ , 300 ppm
	Long-term value: 600 mg/m ³ , 200 ppm
	Sk, BMGV
	(Contd. on page 5)

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(Contd. of page 4) 78-78-4 isopentane WEL Long-term value: 1800 mg/m³, 600 ppm · Ingredients with biological limit values: 78-93-3 butanone BMGV 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: • General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Avoid contact with the eyes. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles

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9.1 Information on basic physical and ch	nemical properties
General Information	ionnear properties
Appearance:	
Form:	Aerosol
Colour:	Whitish
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable, as aerosol.
Flash point:	<0 °C (<32 °F)
	Not applicable, as aerosol.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	>200 °C (>392 °F)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
Explosion limits:	
Lower:	0.6 Vol %
Upper:	26.2 Vol %
Vapour pressure at 20 $\cdot C$ (68 $\cdot F$):	4000 hPa (3000 mm Hg)
Density at 20 °C (68 °F):	0.69 g/cm ³ (5.758 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	91.4 %
EU-VOC:	642.4 g/l
EU-VOC in %:	92.34 %
VOC (EC)	 669.0 g/l
VOC-EU%	96.95 %
Solids content:	3.1 %
9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values relev	vant for classification:
67-64-1 ac	etone	
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50	39 mg/m3 (rat)
Naphtha (petroleum)	, hydrotreated light
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalative	LC50 / 4h	> 2 mg/l (rat)
115-10-6 d	limethyl eth	her
Inhalative	LC50	309 mg/l (rat)
106-97-8 b	outane	
Inhalative	LC50	1443 mg/l (rat)
109-66-0 р	entane	
Oral	LD50	>16000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rab)
		>2500 mg/kg (rat)
Inhalative	LC50	>100 mg/m3 (rat)
78-93-3 bi	itanone	
Oral	LD50	2737 mg/kg (rat)
Dermal	LD50	6480 mg/kg (rabbit)
Inhalative	LC50	34 mg/m3 (rat)
Serious ey Causes ser Respirator CMR effed	sion/irritat n irritation. e damage/i ious eye irr y or skin se ets (carcino	ion rritation
	0	d on available data, the classification criteria are not met.
		Based on available data, the classification criteria are not met.

· STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

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Aquatic toxicity	:
67-64-1 acetone	2
EC50 / 48 h	8800 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (sta	tic) 5540 mg/l (fish)
Naphtha (petro	leum), hydrotreated light
EC50 / 48 h	3 mg/l (Daphnia magna)
EC50 / 72 h	30-100 mg/l (Pseudokirchneriella Subcapitata)
LC50 / 96 h	11.4 mg/l (fish)
115-10-6 dimet	iyl ether
EC50 / 48 h	>4000 mg/l (daphnia magna)
109-66-0 pentar	ne la
EC50 / 48 h	9.7 mg/l (daphnia magna)
LC50 / 96 h	1-10 mg/l (fish)
78-93-3 butano	ne
EC 5	1150 mg/l (Pseudonomas putida; 16h)
EC50	5091 mg/l (daphnia magna / Wasserfloh)
IC 5	4300 mg/l (scenedesmus quadricauda; 168h)
LC50 / 96 h	3220 mg/l (pimephales promelas; 96h)
12.3 Bioaccuma 12.4 Mobility in Ecotoxical effect Remark: Harmf Additional ecolo General notes: Water hazard cl Do not allow pro Danger to drink Harmful to aqua	ful to fish ogical information: ass 2 (German Regulation) (Self-assessment): hazardous for water oduct to reach ground water, water course or sewage system. ing water if even small quantities leak into the ground. atic organisms PBT and vPvB assessment cable.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

15 01 04 metallic packaging

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Trade name: SPRING® PRO FLORIST SPRAY ADHESIVE DK2 400 ML

· Uncleaned packaging:

• Recommendation: Non contaminated packagings may be recycled.

SECTION 14: Transport informat	1011
14.1 UN-Number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class	2.1
Label	2.1
14.4 Packing group ADR, IMDG, IATA	not regulated
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre
	Category A. For AEROSOLS with a capacity above 1 litre Category B. For WASTE AEROSOLS: Category C, Clear
	of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Segregation as for class 9. Stow "separated from" class 1
	except for division 1.4. For AEROSOLS with a capacity
	above 1 litre: Segregation as for the appropriate
	subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
I I I I I I I I I I I I I I I I I I I	Not permitted as Excepted Quantity

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#### Trade name: SPRING® PRO FLORIST SPRAY ADHESIVE DK2 400 ML

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	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
· IMDG	
Limited quantities (LQ)	1L
$\cdot$ Excepted quantities ( $\widetilde{E}Q$ )	Code: E0
	Not permitted as Excepted Quantity
	Code: E0
	Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

### **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- P3a FLAMMABLE AEROSOLS
- E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H220 Extremely flammable gas.
H224 Extremely flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
Department issuing SDS: R&D legislation and regulatory advisor

• Contact: Mr. K. Smedeman

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 1: Flammable liquids – Category 1
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* Data compared to the previous version altered.