

SAFETY DATA SHEET

SUPERSOLVE AS

According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of	the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	SUPERSOLVE AS		
Internal identification	A145		
1.2. Relevant identified uses	of the substance or mixture and uses advised against		
Identified uses	Cleaning agent.		
Uses advised against	Use only for intended applications.		
1.3. Details of the supplier of the safety data sheet			
Supplier	ARROW SOLUTIONS RAWDON ROAD MOIRA SWADLINCOTE DERBYSHIRE DE12 6DA TEL: +44 (0)1283 221044 FAX: +44 (0)1283 225731 sales@arrowchem.com		
1.4. Emergency telephone number			
Emergency telephone	+44 (0) 777 8505 330 (24 hrs).		
SECTION 2: Hazards identifi	cation		
2.1. Classification of the subs	stance or mixture		
Classification (EC 1272/2008			
Physical hazards	Aerosol 1 - H222, H229		
Health hazards	Skin Irrit. 2 - H315 STOT SE 3 - H336		
Environmental hazards	Aquatic Chronic 2 - H411		
2.2. Label elements Pictogram			
Signal word	Danger		
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated.		

Precautionary statements	 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. P261 Avoid breathing spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P280 Wear protective gloves, eye and face protection. P312 Call a POISON CENTRE/doctor if you feel unwell. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/ container in accordance with national regulations.
Contains	HYDROCARBONS, C7-C9, ISOALKANES
Detergent labelling	15 - < 30% aliphatic hydrocarbons

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TRANS-1,3,3,3-TETRAFLUROPF	ROP-1-ENE	60-100%
CAS number: 29118-24-9	EC number: 471-480-0	REACH registration number: 01- 0000019758-54-XXXX
Classification Press. Gas (Liq.) - H280		
HYDROCARBONS, C7-C9, ISOA	ALKANES	10-30%
CAS number: —	EC number: 921-728-3	REACH registration number: 01- 2119471305-42-XXXX
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
HYDROCARBONS C6 - C7 ISOA - HEXANE	ALKANES, CYCLICS <5% n	5-10%
CAS number: 92062-15-2	EC number: 926-605-8	REACH registration number: 01- 2119486291-36-XXXX
Classification		
Flam. Liq. 2 - H225		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

DIFLUOROETHANE 1-5%

CAS number: 75-37-6

EC number: 200-866-1

REACH registration number: 01-2119474440-43-XXXX

Classification

Flam. Gas 1 - H220 Press. Gas (Liq.) - H280

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel. Move affected person to fresh air at once. If medical advice is needed, have product container or label at hand. Get medical attention if any discomfort continues.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.	
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.	
Skin contact	Wash skin thoroughly with soap and water. Use suitable lotion to moisturise skin.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if any discomfort continues.	
4.2. Most important symptoms	and effects, both acute and delayed	
Inhalation	May cause drowsiness or dizziness.	
Ingestion	Gastrointestinal symptoms, including upset stomach.	
Skin contact	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.	
Eye contact	May cause discomfort.	
4.3. Indication of any immediate medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with the following media: Foam, carbon dioxide or dry powder.	
5.2. Special hazards arising from	om the substance or mixture	
Specific hazards	Extremely flammable aerosol. Pressurised container: may burst if heated	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrocarbons. Hydrogen fluoride (HF).	
5.3. Advice for firefighters		
Protective actions during firefighting	Cool containers exposed to flames with water until well after the fire is out.	
SECTION 6: Accidental release	e measures	

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. No smoking, sparks, flames or other sources of ignition near spillage. Do not touch or walk into spilled material. Take precautionary measures against static discharges. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Do not enter storage areas or confined spaces unless adequately ventilated. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.			
6.2. Environmental precaution	<u>s</u>			
Environmental precautions	Do not discharge into drains or watercourses or onto the ground.			
6.3. Methods and material for	containment and cleaning up			
Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage.			
6.4. Reference to other section	ns			
Reference to other sections	For personal protection, see Section 8.			
SECTION 7: Handling and sto	rage			
7.1. Precautions for safe hand	7.1. Precautions for safe handling			
Usage precautions	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves, eye and face protection. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Keep container in a well-ventilated place. Avoid release to the environment. Avoid contact with contaminated tools and objects. Do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.			
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7.2. Conditions for safe storag	smoking. Wear protective gloves, eye and face protection. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Keep container in a well-ventilated place. Avoid release to the environment. Avoid contact with contaminated tools and objects. Do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling. e, including any incompatibilities Store at temperatures between 4°C and 40°C. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open			
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7.2. Conditions for safe storag Storage precautions Storage class 7.3. Specific end use(s) Specific end use(s) SECTION 8: Exposure Control 8.1. Control parameters Occupational exposure limits TRANS-1,3,3,3-TETRAFLURG	smoking. Wear protective gloves, eye and face protection. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Keep container in a well-ventilated place. Avoid release to the environment. Avoid contact with contaminated tools and objects. Do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling. e, including any incompatibilities Store at temperatures between 4°C and 40°C. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Flammable compressed gas storage. The identified uses for this product are detailed in Section 1.2. is/personal protection			

DIFLUOROETHANE

Long-term exposure limit (8-hour TWA): WEL 1000 ppm gas and aerosol mists

WEL = Workplace Exposure Limit

HYDROCARBONS, C7-C9, ISOALKANES

DNEL	Workers - Inhalation; Long term systemic effects: 2035 mg/m³ Workers - Dermal; Long term systemic effects: 773 mg/kg/day General population - Inhalation; Long term systemic effects: 608 mg/m³ General population - Dermal; Long term systemic effects: 699 mg/kg/day General population - Oral; Long term systemic effects: 699 mg/kg/day
PNEC	- Fresh water; N/A - Marine water; N/A - Intermittent release; N/A - STP; N/A - Sediment (Freshwater); N/A - Soil; N/A
	HYDROCARBONS C6 - C7 ISOALKANES, CYCLICS <5% n - HEXANE (CAS: 92062-15-2)
DNEL	Workers - Inhalation; Long term systemic effects: 5306 mg/m ³ Workers - Dermal; Long term systemic effects: 13694 mg/kg/day General population - Inhalation; Long term systemic effects: 1131 mg/m ³ General population - Dermal; Long term systemic effects: 1377 mg/kg/day General population - Oral; Long term systemic effects: 1301 mg/kg/day
	DIFLUOROETHANE (CAS: 75-37-6)
DNEL	Workers - Inhalation; Long term systemic effects: 2713 mg/m ³ General population - Inhalation; Long term systemic effects: 675 mg/m ³
PNEC	 Fresh water; 0.048 mg/l Marine water; 0.0048 mg/l Intermittent release; 0.48 mg/l STP; No emmision to STP expected Sediment (Freshwater); 0.19 mg/kg Sediment (Marinewater); 0.019 mg/kg Soil; 0.141 mg/kg

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Eye/face protection

Provide adequate ventilation.

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. It should be noted that liquid may penetrate the gloves. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Nitrile rubber. Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH). Polyvinyl alcohol (PVA). Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use.
Hygiene measures Respiratory protection	Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Wear a respirator fitted with the following cartridge: Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Gas and combination filter cartridges should comply with European Standard EN14387. This represents the minimum standard required and better specification protection should be used if available. Check that the respirator fits tightly and the filter is changed regularly. Gas filter, type A2. Organic vapour filter.
SECTION 9: Physical and (

9.1. Information on basic physical and chemical properties		
Appearance	Aerosol.	
Colour	Water-white.	
Odour	Solvent.	
рН	Not applicable.	
Relative density	Not applicable.	
Solubility(ies)	Insoluble in water.	
9.2. Other information		
Other information	Not determined.	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	

10.3. Possibility of hazardous reactions Possibility of hazardous Not determined. reactions 10.4. Conditions to avoid Conditions to avoid Avoid heat, flames and other sources of ignition. 10.5. Incompatible materials Materials to avoid Flammable/combustible materials. 10.6. Hazardous decomposition products Hazardous decomposition Thermal decomposition or combustion products may include the following substances: products Carbon monoxide (CO). Carbon dioxide (CO2). Hydrocarbons. Hydrogen fluoride (HF). **SECTION 11: Toxicological information** 11.1. Information on toxicological effects Specific target organ toxicity - single exposure Central nervous system Target organs Inhalation May cause drowsiness or dizziness. Ingestion Gastrointestinal symptoms, including upset stomach. Aspiration hazard if swallowed. Skin contact Causes skin irritation. Repeated exposure may cause skin dryness or cracking. Eye contact May cause discomfort. Toxicological information on ingredients. HYDROCARBONS, C7-C9, ISOALKANES Acute toxicity - oral Acute toxicity oral (LD50 5,000.0 mg/kg) Rat Species Acute toxicity - dermal Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg) Species Rabbit Notes (dermal LD₅₀) HYDROCARBONS C6 - C7 ISOALKANES, CYCLICS <5% n - HEXANE

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,001.0
Species	Rat
Notes (oral LD₅₀)	
Acute toxicity - dermal	

	Acute toxicity dermal (LD₅ mg/kg)	2,001.0	
	Species	Rabbit	
	Acute toxicity - inhalation		
	Acute toxicity inhalation (LC₅₀ vapours mg/l)	21.0	
	Species	Rat	
SECTION 1	2: Ecological Information		
Ecotoxicity	Toxic to	aquatic life with long lasting effects.	
12.1. Toxicit	<u>v</u>		
Acute aquat	ic toxicity		
Acute toxicit	y - fish Not dete	rmined.	
Ecological in	nformation on ingredients.		
		TRANS-1,3,3,3-TETRAFLUROPROP-1-ENE	
	Acute aquatic toxicity		
	Acute toxicity - fish	LC₅₀, 96 hours: >119 mg/l, Cyprinus carpio (Common carp)	
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: >160 mg/l, Daphnia magna	
		HYDROCARBONS, C7-C9, ISOALKANES	
	Acute aquatic toxicity		
	Acute toxicity - fish	LL₅₀, 18.4 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout)	
	Acute toxicity - aquatic invertebrates	NOEC, : 0.17 mg/l, Daphnia magna	
	HYDRO	OCARBONS C6 - C7 ISOALKANES, CYCLICS <5% n - HEXANE	
	Acute aquatic toxicity	·	
	Acute toxicity - fish	LC₅₀, 96 hours: 12 mg/l, Oncorhynchus mykiss (Rainbow trout)	
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3 mg/l, Daphnia magna	
	Acute toxicity - aquatic plants	EC₅₀, 72 hours: 30 mg/l, Scenedesmus subspicatus	
12.2. Persistence and degradability			
Persistence	and degradability The proc	duct is expected to be biodegradable.	
12.3. Bioaco	cumulative potential		
Bioaccumula	ative potential The proc	duct does not contain any substances expected to be bioaccumulating.	
12.4. Mobilit	y in soil		
Mobility		duct contains volatile organic compounds (VOCs) which will evaporate easily from all . The product has poor water-solubility.	
12.5. Result	s of PBT and vPvB assessm	nent	

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	Not determined.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment method		
Disposal methods	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.	
SECTION 14: Transport inform	nation	
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.	
Special Provisions note		
14.1. UN number		
UN No. (ADR/RID)	1950	
UN No. (IMDG)	1950	
UN No. (ICAO)	1950	
14.2. UN proper shipping nam	<u>e</u>	
Proper shipping name (ADR/RID)	AEROSOLS	
Proper shipping name (IMDG)	AEROSOLS	
Proper shipping name (ICAO)	AEROSOLS	
14.3. Transport hazard class(e	es)	
ADR/RID class	2.1	
ADR/RID classification code	5F	
ADR/RID label	2.1	
IMDG class	2.1	
ICAO class/division	2.1	

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-D, S-U
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ADR transport category

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).	
EU legislation	Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010.	
	Commission Regulation (EU) No 2015/830 of 28 May 2015.	
Guidance	Workplace Exposure Limits EH40.	

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms	ATE: Acute Toxicity Estimate.
used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by
	Road.
	CAS: Chemical Abstracts Service.
	DNEL: Derived No Effect Level.
	EC₅₀: 50% of maximal Effective Concentration.
	IATA: International Air Transport Association.
	IMDG: International Maritime Dangerous Goods.
	LC₅₀: Lethal Concentration to 50 % of a test population.
	LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
	NOEC: No Observed Effect Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	PNEC: Predicted No Effect Concentration.
	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
	(EC) No 1907/2006.
	UN: United Nations.
	vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aerosol = Aerosol Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Asp. Tox. = Aspiration hazard Flam. Gas = Flammable gas Flam. Liq. = Flammable liquid Press. Gas (Liq.) = Gas under pressure: Liquefied gas Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	04/02/2019
Revision	4.0
Supersedes date	07/02/2018
SDS number	27440
Hazard statements in full	 H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.