

Safety Data Sheet dated 24/2/2016, version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Mixture identification: Trade name:

FLUSH SOLVENT Not Flammable.

CP5086 - CP5087

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:

product for air conditioning systems

product for cleaning and washing Uses advised against:

do not use on humans and animals

- 1.3. Details of the supplier of the safety data sheet Company: Sunair Europe BV. Parallelweg 169 6001HM Weert, The Netherlands Tel. n. +31 (0)495 531186
 mail: sales@sunaireurope.com
- 1.4. Emergency telephone number Centro Antiveleni Ospedale Niguarda Milano +39 02.66101029

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

- EC regulation criteria 1272/2008 (CLP):
 - () Warning, Eye Irrit. 2, Causes serious eye irritation.

(iv) Warning, Skin Sens. 1, May cause an allergic skin reaction.

Application of the second seco

Adverse physicochemical, human health and environmental effects:

No other hazards 2.2. Label elements

Hazard pictograms:



Danger Hazard statements:

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P264 Wash with water Thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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



Special Provisions: None Contents: Idrocarburi, C12-C15, n-alcani, isoalcani, ciclici, < 2% aromatici dipentene; limonene; N-DECANO Special provisions according to Annex XVII of REACH and subsequent amendments: None 2.3. Other hazards vPvB Substances: None - PBT Substances: None Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

- 3.1. Substances
- N.A. 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	er	Classification
67 %	Idrocarburi, C12-C15, n-alcani, isoalcani, ciclici, < 2% aromatici	EC: REACH No.:	920-107-4 01- 2119453414- 43	🕸 3.10/1 Asp. Tox. 1 H304
18 %	N-DECANO	CAS: EC: REACH No.:	124-18-5 204-686-4 01- 2119474199- 26	 2.6/3 Flam. Liq. 3 H226 3.10/1 Asp. Tox. 1 H304
10.9 %	propan-2-ol; isopropyl alcohol; isopropanol	Index number: CAS: EC: REACH No.:	603-117-00-0 67-63-0 200-661-7 01- 2119457558- 25	 2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
2.5 %	dipentene; limonene;	Index number: CAS: EC: REACH No.:	601-029-00-7 5989-27-5 227-813-5 01- 2119529223- 47	 2.6/3 Flam. Liq. 3 H226 3.2/2 Skin Irrit. 2 H315 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410
1.63 %	ethanol; ethyl alcohol	Index number: CAS: EC:	603-002-00-5 64-17-5 200-578-6	2.6/2 Flam. Liq. 2 H225

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.



Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

- 4.2. Most important symptoms and effects, both acute and delayed Cap11
- 4.3. Indication of any immediate medical attention and special treatment needed
 - In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections See also section 8 and 13

SECTION 7: Handling and storage

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7.1. Precautions for safe handling Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment. 7.2. Conditions for safe storage, including any incompatibilities store in a cool, well ventilated place, away from heat, flames, sparks or other sources of ianition keep only in the original container away from sunlight neighborhoods avoid contact with skin and eyes, inhalation of vapours/mists/dusts. do not use empty containers before they are cleaned. contaminated clothing must be replaced before entering the dining areas. at work do not eat or drink. do not smoke Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises. 7.3. Specific end use(s) produced for air conditioning and for cleaning and washing **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters N-DECANO - CAS: 124-18-5 TLV TWA - 1200 mg/m3 propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0 ACGIH - LTE(8h): 200 ppm - STE: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair ethanol; ethyl alcohol - CAS: 64-17-5 ACGIH - STE: 1000 ppm - Notes: A3 - URT irr **DNEL Exposure Limit Values** dipentene; limonene; - CAS: 5989-27-5 Worker Professional: 33.3 mg/kg - Consumer: 8.33 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 4.76 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects **PNEC Exposure Limit Values** N-DECANO - CAS: 124-18-5 Target: Fresh Water - Value: 1.2 mg/l Target: Marine water - Value: 1.2 mg/l Target: Fresh Water - Value: 0.33 mg/kg Target: Marine water sediments - Value: 0.33 mg/kg Target: Soil (agricultural) - Value: 0.13 mg/kg dipentene; limonene; - CAS: 5989-27-5 Target: Soil (agricultural) - Value: 0.262 mg/kg Target: Fresh Water - Value: 0.0054 mg/l Target: Marine water - Value: 0.00054 mg/l Target: Freshwater sediments - Value: 1.32 mg/kg Target: Marine water sediments - Value: 0.13 mg/kg 8.2. Exposure controls Eye protection: Basket eye glasses.

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Protection for skin: Safety shoes. Chemical protection clothing. Protection for hands: PVC (polyvinyl chloride). Respiratory protection: Mask with filter "A" , brown colour Thermal Hazards: Do not expose to temperatures exceeding 50° c. Environmental exposure controls: emissions from production processes, including those from ventilation equipment should be inspected for the purposes of enforcement of environmental protection Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid		
Odour:	characteristic		
Odour threshold:	N.A.		
pH:	N.A.		
Melting point / freezing point:	N.A.		
Initial boiling point and boiling range:	>220°C		
Flash point:	> 55 ° C		
Evaporation rate:	N.A.		
Solid/gas flammability:	N.A.		
Upper/lower flammability or explosive limits:	N.A.		
Vapour pressure:	N.A.		
Vapour density:	>2		
Relative density:	0.8 Kg/l		
Solubility in water:	insoluble		
Solubility in oil:	soluble		
Partition coefficient (n- octanol/water):	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
Viscosity:	N.A.		
Explosive properties:	N.A.		
Oxidizing properties:	N.A.		

9.1. Information on basic physical and chemical properties

9.2. Other information

Properties	Value	Method:	Notes:
kinematic viscosity:	kv <= 1,4 mm2/s (a 40°C)		
Miscibility:	N.A.		
Fat Solubility:	N.A.		



Conductivity:	N.A.	
Substance Groups	N.A.	
relevant properties		

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid keep away from heat, sources of ignition10.5. Incompatible materials
- oxidizing agents
- 10.6. Hazardous decomposition products the product is flammable, following combustion can lead to the formation of dangerous decomposition products by thermal decomposition can rid COx

SECTION 11: Toxicological information

11.1. Information on toxicological effects Toxicological information of the mixture: N.A. Toxicological information of the main substances found in the mixture: Idrocarburi, C12-C15, n-alcani, isoalcani, ciclici, < 2% aromatici a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m3 - Duration: 4h N-DECANO - CAS: 124-18-5 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5840 mg/kg Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg dipentene; limonene; - CAS: 5989-27-5 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat = 4400 mg/kg Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg LAVAGGIO IMPIANTI NON INFIAMM. -The product may have harmful effects on human health. Repeated exposure may cause skin dryness or cracking. May be fatal if swallowed and enters Airways. ethanol; ethyl alcohol - CAS: 64-17-5

LD50 (RABBIT) ORAL: 6300 MG/KG LD50 (RAT) ORAL SINGLE DOSE: 7060 MG/KG

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;

c) serious eye damage/irritation;

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d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. Idrocarburi, C12-C15, n-alcani, isoalcani, ciclici, < 2% aromatici a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 24 Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24 Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 N-DECANO - CAS: 124-18-5 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish > 10-100 mg/l - Duration h: 96 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: EC50 - Species: Fish > 100 mg/l - Duration h: 48 dipentene; limonene; - CAS: 5989-27-5 a) Aquatic acute toxicity: Endpoint: EC50 - Species: Algae = 150 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia = 0.85 mg/l - Duration h: 24 Endpoint: LC50 - Species: Fish = 0.72 mg/l - Duration h: 96 12.2. Persistence and degradability None N-DECANO - CAS: 124-18-5 Biodegradability: Persistent and Biodegradable - Test: 1 - Duration: 1 - %: 114.3 -Notes: N.A. dipentene; limonene; - CAS: 5989-27-5 Biodegradability: Not persistent and Biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: N.A. 12.3. Bioaccumulative potential dipentene; limonene; - CAS: 5989-27-5 Bioaccumulation: Bioaccumulative - Test: N.A. N.A. - Duration: N.A. - Notes: N.A. 12.4. Mobility in soil N-DECANO - CAS: 124-18-5 Mobility in soil: Mobile - Test: N.A. N.A. - Duration: N.A. - Notes: N.A. dipentene; limonene; - CAS: 5989-27-5 Mobility in soil: Mobile - Test: N.A. N.A. - Duration: N.A. - Notes: N.A. 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None 12.6. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods



	uthorised disposal plants or for incineration under controlled with the local and national regulations currently in force.
SECTION 14: Transport information 14.1. UN number	
	the meaning of transport regulations.
14.3. Transport hazard class(es)	
ADR-Class:	Not dangerous
IATA-Class: IMDG-Class: N.A.	Not dangeorus Not dangeorus
14.4. Packing group N.A.	
14.5. Environmental hazards	
Marine pollutant: N.A.	No
14.6. Special precautions for user N.A.	
14.7. Transport in bulk according to A No	nnex II of Marpol and the IBC Code
SECTION 15: Regulatory information	
	al regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to Dir. 2000/39/EC (Occupational	
Regulation (EC) n. 1907/2006 (
Regulation (EC) n. 1272/2008 (CLP)
	TP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830	
Regulation (EU) n. 286/2011 (A Regulation (EU) n. 618/2012 (A	
Regulation (EU) n. 487/2013 (A	
Regulation (EU) n. 944/2013 (A	
Regulation (EU) n. 605/2014 (A	
	he substances contained according to Annex XVII Regulation
(EC) 1907/2006 (REACH) and subset None	
Where applicable, refer to the followin Directive 82/501/EEC ('Activitie	g regulatory provisions : s linked to risks of serious accidents') and subsequent
amendments.	
Regulation (EC) nr 648/2004 (1999/13/EC (VOC directive)	detergents).
Provisions related to directive EU 201 N.A.	2/18 (Seveso III):
15.2. Chemical safety assessment No	
SECTION 16: Other information	
Text of phrases referred to under hea	dina 3:
H304 May be fatal if swallowed	
H226 Flammable liquid and var	

H226 Flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.