

Safety Data Sheet

ACC 4420-4



Safety Data Sheet dated 31/8/2018, version 1
In compliance with Regulation (EC) 2015/830

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

1.1. Product identifier

Mixture identification:

Trade name: ACC 4420-4
Product type: Low odour solvent based cleaner with medium evaporation (electrical rigidity 40 KV)

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

Recommended use:

Washing and cleaning products (including solvent based products)

Uses advised against:

None in particular

1.3. Details of the supplier of the safety data sheet

Supplier:

AirChem Consumables FZCO
P.O. Box: 261503
LOB 10, office # 10F14, Jebel Ali Free Zone
Dubai, UAE
Ph: +971-4-881 8084
Fax: +971-4-881 6022
Email: airacc@acc.ae

Website: www.aerospace-acc.com

Competent person responsible for the safety data sheet:

Email: airacc@acc.ae

1.4. Emergency telephone number

AirChem Consumables FZCO, Ph: +971-4-881 8084 Fax: +971-4-881 6022 Email: airacc@acc.ae (from Sunday to Thursday from 09 AM to 6 PM; Saturdays 09 AM to 2:30 PM)

A list of Poison Control Centers is available at the following link:

http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- ◊ Warning, Flam. Liq. 3, Flammable liquid and vapour.
- ◊ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P331 Do NOT induce vomiting.

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P370+P378 In case of fire use water spray, CO₂, foam, dry chemical, Halon, any class "C" extinction media to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

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

Special Provisions:

None

Contains

Decane

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Declaration of ingredients according to Detergent Regulation 648/2004:

aliphatic hydrocarbons > 30 %

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

>= 75% Decane

REACH N° 01-2119474199-26-XXXX, CAS: 124-18-5, EC: 204-686-4

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

EUH066

For the complete text of the hazard and risk phrases refer to paragraph 16

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.

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 ophthalmologist immediately.

Protect uninjured eye.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

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None

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:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire use water spray, CO₂, foam, dry chemical, Halon, any class "C" extinction media to extinguish.

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

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.

Contaminated 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

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

For more information see Technical data bulletin

None in particular

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contained substances

Decane - CAS: 124-18-5

EU - TWA(8h): 1200 - Behaviour: Binding

DNEL Exposure Limit Values

Not applicable

PNEC Exposure Limit Values

Decane - CAS: 124-18-5

Target: Fresh Water - Value: 1.2 µg/l

Target: Marine water - Value: 1.2 µg/l

Target: Freshwater sediments - Value: 0.33 mg/kg

Target: Marine water sediments - Value: 0.33 mg/kg

Target: Occasional issue - Value: 4.5 µg/l

Target: Microorganisms in sewage treatments - Value: 18 µg/l

Target: Soil - Value: 0.13 mg/kg

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|--|--------------|---------|--------|
| Appearance and colour: | Clear liquid | -- | -- |
| Odour: | Solvent | -- | -- |
| Odour threshold: | n.av. mg/m3 | -- | -- |
| pH: | na | -- | -- |
| Melting point / freezing point: | < 0 °C | -- | -- |
| Initial boiling point and boiling range: | 165-200 °C | -- | -- |
| Flash point: | 53 °C | -- | -- |
| Evaporation rate: | n.av. | -- | -- |
| Solid/gas flammability: | na | -- | -- |

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| | | | |
|---|---------------|----|----|
| Upper/lower flammability or explosive limits: | n.av. % v/v | -- | -- |
| Vapour pressure: | 0,2 kPa | -- | -- |
| Vapour density (air=1): | > 1 | -- | -- |
| Relative density: | 0,75 g/ml | -- | -- |
| Solubility in water: | na | -- | -- |
| Solubility in oil: | n.av. | -- | -- |
| Partition coefficient (n-octanol/water): | n.av. | -- | -- |
| Auto-ignition temperature: | > 200 °C | -- | -- |
| Decomposition temperature: | n.av. °C | -- | -- |
| Viscosity: | n.av. mPa.s | -- | -- |
| Explosive properties: | Not explosive | -- | -- |
| Oxidizing properties: | Not oxidant | -- | -- |

9.2. Other information

| Properties | Value | Method: | Notes: |
|---------------------------------------|-------|---------|--------|
| Miscibility: | na | -- | -- |
| Fat Solubility: | n.av. | -- | -- |
| Conductivity: | na | -- | -- |
| Substance Groups relevant properties: | n.av. | -- | -- |

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

It may catch fire on contact with oxidising mineral acids.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

Not applicable

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Toxicological information of the main substances found in the product:

Decane - CAS: 124-18-5

Type: a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat - Op.: > - Value: 5000 - U.M.: mg/m³ - Duration: 8 hours - Notes: vapore

Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 2000 - U.M.: mg/kg

Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg

Type: g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat - Op.: > - Value: 1000 - U.M.: mg/kg

Type: i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat - Op.: > - Value: 5000 - U.M.: mg/kg

Test: NOAEC - Route: Inhalation Vapour - Species: Rat - Op.: = - Value: 10.4 - U.M.: mg/l

Type: j) aspiration hazard:

Test: NOAEL - Route: Oral - Species: Rat - Op.: > - Value: 1000 - U.M.: mg/kg

Test: NOAEL - Route: Inhalation Vapour - Species: Rat - Op.: > - Value: 1000 - U.M.: 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;
- 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

Based on the information available it is not expected that this product may cause any adverse environmental effect when use instructions and disposal recommendations are followed.

Adopt good working practices, so that the product is not released into the environment.

List of substances hazardous to the environment and eco-toxicological information available:

Decane - CAS: 124-18-5

Type: a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish - Op.: > - Value: 10 - U.M.: mg/l - Duration h: 96 -

Notes: Oncorhynchus mykiss

Endpoint: LC50 - Species: Fish - Op.: < - Value: 100 - U.M.: mg/l - Duration h: 96 -

Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h:

48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae - Op.: > - Value: 100 - U.M.: mg/l - Duration h: 72

- Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Daphnia - Op.: > - Value: 100 - U.M.: mg/l - Duration h:

96 - Notes: Chaetogammarus marinus

Type: b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Fish - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h: 672 -

Notes: Oncorhynchus mykiss

Endpoint: NOEL - Species: Fish - Op.: < - Value: 1 - U.M.: mg/l - Duration h: 672 -

Notes: Oncorhynchus mykiss

Endpoint: NOEL - Species: Daphnia - Op.: > - Value: 0.1 - U.M.: mg/l - Duration h:

504 - Notes: Daphnia magna

Endpoint: NOEL - Species: Daphnia - Op.: < - Value: 1 - U.M.: mg/l - Duration h:

504 - Notes: Daphnia magna

12.2. Persistence and degradability

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Decane - CAS: 124-18-5

Biodegradability: Readily biodegradable - Test: OCSE 301 F: Manometric Respirometry, Oxygen consumption - Duration: 28 days - %: 77 - Notes: Not applicable

12.3. Bioaccumulative potential

Decane - CAS: 124-18-5

Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 5.86 - Duration: Not applicable - Notes: logPow

12.4. Mobility in soil

Decane - CAS: 124-18-5

Mobility in soil: Not mobile - Test: Not applicable - Duration: Not applicable - Notes: log Koc: 4.16

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

Product and its residue:

Do not dispose in the canals of wastewater, waterways and soil.

The codes indicating the type of waste are considered based on the recommendations and scheduled use of this product. Different codes may be assigned based on the end user's use and the characteristics of the disposal.

Waste code CER/EWC (2000/532/CE), attributable to the product as:

07 06 04 * - Other organic solvents, washing liquids and mother liquors
HP3 - HP5

Any remaining product should be disposed of with the material.

Containers/contaminated packaging

Containers, even completely empty, must not be disposed in the environment. The packagings which can not be cleaned should be disposed of as the material.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1993

IATA-UN Number: 1993

IMDG-UN Number: 1993

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (n-decane)

IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (n-decane)

IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (n-decane)

14.3. Transport hazard class(es)

ADR-Class: 3

ADR-Label: 3

ADR - Hazard identification number: 30

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

IMDG-Label: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

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- IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
ADR-Subsidiary risks: -
ADR-S.P.: 274 601 640E
ADR-Transport category (Tunnel restriction code): (D/E)
IATA-Passenger Aircraft: 355
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 615
IATA-S.P.: -
IATA-ERG: 3L
IMDG-EmS: F-E , S-E
IMDG-Subsidiary risks: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
nd

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions related to the substances contained:
Restriction 52
- Volatile Organic compounds - VOCs = 90.00 %
Volatile Organic compounds - VOCs = 675.00 g/l
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.76
- Where applicable, refer to the following regulatory provisions :
Regulation (EC) nr 648/2004 and CE N. 907/2006 (Detergents).
Regulation (EC) n°648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)
- Seveso III category according to Annex 1, part 1
Product belongs to category: Not applicable
- 15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

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SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

| Hazard class and hazard category | Code | Description |
|----------------------------------|--------|-------------------------------|
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Asp. Tox. 1, H304 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

This MSDS cancels and replaces any preceding release.

Where applicable, refer to the following regulatory provisions :

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments; Regulation (EC) n°1272/2 008; Regulation (EC) N. 790/2009 (annex VI), Regulation (EC) n. 1907/2006 (REACH).

Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments; Commission Directive n. 2006/8/CE.

Regulation (EC) nr 648/2004 and CE N. 907/2006 (Detergents).

Directive 2012/18/EU (Seveso III)

Directive 91/271/EEC and 91/676/CEE (protection of waters) and subsequent amendments.

Directive 2013/10/EU (aerosols) amending Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) n° 1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendments.

Regulation (EC) No 1223/2009 on cosmetic products and subsequent amendments.

Regulation (EU) No 126/2013 amending Annex XVII to Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and subsequent amendments. Regulation (EC) N. 304/2003 and subsequent amendments. Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products and subsequent amendments.

EU Regulament 1357/2014 (Disposal of waste) and subsequent amendments.

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), current edition.

Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition.

IMDG Code = International Maritime Dangerous Goods Code produced by the International

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Maritime Organization (IMO), current edition.

Main bibliographic sources:

ACGIH - Threshold Limit Values - 2015

Occupational exposure limit values (Commission Directives 2000/39/EC and 2006/15/CE)

ECHA dossier

NIOSH - Registry of toxic effects of chemical substances (1983)

Material Safety Data Sheets of chemicals, REACH database

Material Safety Data Sheet and Technical Data of raw material as by Supplier.

Abbreviations and acronyms:

TLV-TWA = Threshold Limit Value- time-weighted average, 8-hour workday, 40-hour workweek; TLV-STEL-15 min = Threshold Limit Values - Short Term Exposure Limit; TLV-C = Ceiling exposure limit; Notes: IBE= Biological Exposure Indices; SEN= sensitizer; Skin= Can be absorbed through the skin. Carcinogenicity categories: A1 / A2 = confirmed / suspected human carcinogen; A3 = Animal carcinogen; A4 / A5 = Not Classifiable/not suspected as a human carcinogen. ACGIH = American Conference on Governmental Industrial Hygienists. OEL =Occupational Exposure Limit. VLPE = Occupational Exposure Limit Values. LTE =long term exposure, STE=short term exposure.

n.av.= Not Available, n.a. = not applicable; LD50=lethal dose (solids and liquids), LC50=lethal concentration (gases) that will kill 50% of the test animals; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. Regulations IATA/ICAO = Dangerous Goods Regulations by air, current edition.

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail, current edition. IMDG Code = International Maritime Dangerous Goods Code produced by the International Maritime Organization (IMO), current edition.

PBT = Persistent, Bioaccumulative and Toxic substances. ; vPvB = very Persistent and very Bioaccumulative substances; CMR = Carcinogenic, mutagenic or reproduction toxic substances.

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.