



## SAFETY DATA SHEET KLEEN AIR CONDITIONING CLEANER

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME KLEEN AIR CONDITIONING CLEANER  
PRODUCT NO. SOA009, WNC150, ROA009  
INTERNAL ID A-Ext  
APPLICATION Car maintenance product.  
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### 2 HAZARDS IDENTIFICATION

Extremely flammable  
CLASSIFICATION (1999/45) F+;R12.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
DIETHANOLAMINE	203-868-0	111-42-2	<0.1%	Xn;R22,R48/22 Xi;R38,R41
DIMETHYL ETHER	204-065-8	115-10-6	10-30%	F+;R12
IPA	200-661-7	67-63-0	<0.1%	F;R11 Xi;R36 R67
SODIUM HYDROXIDE	215-185-5	1310-73-2	0.0023%	C;R35

The Full Text for all R-Phrases is Displayed in Section 16

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### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Get medical attention if any discomfort continues.

#### NOTES TO THE PHYSICIAN

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

#### SKIN CONTACT

Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

#### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

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### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

#### SPECIAL FIRE FIGHTING PROCEDURES

Be aware of risk of fire re-starting, and risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Use water to keep fire exposed containers cool and disperse vapours.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

Extremely flammable. Severe explosion hazard when vapours are exposed to flames. Risk of explosion if heated. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Heat may cause the containers to explode. Aerosol cans may explode in a fire.

#### SPECIFIC HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive air mixtures even at room temperature.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

For personal protection, see section 8.

#### ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

#### SPILL CLEAN UP METHODS

For waste disposal, see section 13. If leakage cannot be stopped, evacuate area. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Remove sources of ignition. Collect with absorbent, non-combustible material into suitable containers.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Wear full protective clothing for prolonged exposure and/or high concentrations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Mechanical ventilation or local exhaust ventilation may be required. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

#### STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Keep upright. Protect against physical damage and/or friction. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Do not store for long periods or in large quantities. Store in a cool and well-ventilated place. Store in a dry place. Do not store near heat sources or expose to high temperatures.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIETHANOLAMINE	OES	3 ppm	15 mg/m <sup>3</sup>			
DIMETHYL ETHER	WEL	400 ppm	766 mg/m <sup>3</sup>	500 ppm	958 mg/m <sup>3</sup>	
IPA	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	
SODIUM HYDROXIDE	WEL				2 mg/m <sup>3</sup>	

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WEL = Workplace Exposure Limit.

### ENGINEERING MEASURES

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.  
Provide explosion proof ventilation for high concentrations.

### RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

### HAND PROTECTION

No specific hand protection noted, but gloves may still be advisable.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol.
COLOUR	Colourless.
ODOUR	Fruity.
SOLUBILITY	Miscible with water
RELATIVE DENSITY	1.002 g/cm <sup>3</sup> 20°C
pH-VALUE, CONC.	9.8
SOLUTION	
VISCOSITY	1 cps 20°C

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### MATERIALS TO AVOID

No specific, or groups of materials are likely to react to produce a hazardous situation.

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## 11 TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION

No information available.

### EYE CONTACT

Spray and vapour in the eyes may cause irritation and smarting.

### HEALTH WARNINGS

This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. Vapour from this chemical can be hazardous when inhaled.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### BIOACCUMULATION

No data available on bioaccumulation.

### DEGRADABILITY

No data available.

## 13 DISPOSAL CONSIDERATIONS

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#### GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

#### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

### 14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	AEROSOLS
UN NO. ROAD	1950
ADR CLASS NO.	2.1
ADR CLASS	Class 2: Gases
ADR PACK GROUP	#
TUNNEL RESTRICTION CODE	(D)
ADR LABEL NO.	2.1
UN NO. SEA	1950
IMDG CLASS	2.1
IMDG PACK GR.	#
EMS	F-D, S-U
UN NO. AIR	1950
AIR CLASS	2.1
AIR PACK GR.	#

### 15 REGULATORY INFORMATION

#### LABELLING



Extremely flammable

#### RISK PHRASES

R12 Extremely flammable.

#### SAFETY PHRASES

A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
A2 Do not spray on a naked flame or any incandescent material.  
S2 Keep out of the reach of children.  
S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour/spray.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S51 Use only in well-ventilated areas.

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S56 Dispose of this material and its container to hazardous or special waste collection point.

Detergent Labelling:

< 5% perfumes  
Contains DIDECYLDIMETHYLAMMONIUM CHLORIDE,LIMONENE

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 16 OTHER INFORMATION

REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 09/02/2012

REV. NO./REPL. SDS 19

GENERATED

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R35 Causes severe burns.  
R12 Extremely flammable.  
R22 Harmful if swallowed.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R11 Highly flammable  
R36 Irritating to eyes.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R67 Vapours may cause drowsiness and dizziness.