

**MATERIAL SAFETY DATA SHEET
ACCORDING TO 91/155 EC
ASTORE ECO CLEANER**

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

Product details

Trade name: Astore Eco Cleaner
Application of the substance / the preparation : Cleaning agent/ Cleaner
Manufacturer/Supplier: Astore UK
Walsall Road, Norton Canes, Cannock, Staffordshire WS11 9PU
Email: sales@astore.uk.com
Website: www.astore.uk.com
Tel: 00 44 (0) 1543 272400
Fax: 00 44 (0) 1543 272413

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Cleansing product

Dangerous components:

67-64-1 acetone 50-100 %
Xi, F; R 11-36-66-67
EINECS: 200-662-2
78-93-3 methyl ethyl ketone 10-25 %
Xi, F; R 11-36-66-67
EINECS: 201-159-0

Additional information: For the wording of the listed risk phrases refer to section 16.

3. HAZARDS IDENTIFICATION

Hazard description:

Xi Irritant
F Highly flammable

Information concerning to particular hazards to man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

R 11 Highly flammable.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. FIRST AID MEASURES

After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Do not induce vomiting; call for medical help immediately.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:	Water haze Alcohol resistant foam Fire-extinguishing powder Carbon dioxide
For safety reasons unsuitable extinguishing agents:	Water with full jet
Protective equipment:	Mount respiratory protective device.
Additional information	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection:	Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling:	
Information for safe handling:	Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Information about fire - and explosion protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage:	
Requirements to be met by storerooms and receptacles:	Store in a cool location.
Information about storage in one common storage facility:	Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL: Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

78-93-3 methyl ethyl ketone

WEL: Short-term value: 899 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

Additional information:

The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

Protection of hands:

Protective gloves

Solvent resistant 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

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

PVC or PE gloves

Eye protection:

Tightly sealed goggles

Body protection:

Solvent resistant protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES:

General Information

Form:	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Value/Range	Unit	Method
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	55 ° C	
Flash point:	< 0 ° C	
Ignition temperature:	465.0 ° C	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
Explosion limits:		
Lower:	1.8 Vol %	
Upper:	13.0 Vol %	
Vapour pressure:	at 20 ° C	233.0 hPa
Density:	at 20 ° C	0.79 g/cm ³
Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
Viscosity:		
Dynamic:	at 20 ° C	1 mPas

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions:

No dangerous reactions known.

Dangerous decomposition products:

Danger of forming toxic pyrolysis products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

on the skin:

No irritant effect.

on the eye:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12. ECOLOGICAL INFORMATION:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Product:

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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID class: 3 (F1) Flammable liquids.
Danger code (Kemler): 33
UN-Number: 1993
Packaging group: II
Hazard label: 3
Description of goods: 1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

Maritime transport IMDG:

IMDG Class: 3
UN Number: 1993
Label: 3
Packaging group: II
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1993
Label: 3
Packaging group: II
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

Remarks: Not submit to ADR/VLG in small packing in original outside packing with UN number placed inside diamond shaped label (Limited quantity)

15. REGULATORY INFORMATION

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xi Irritant
F Highly flammable

Risk phrases:

11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

Safety phrases:

9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition — No smoking.
24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

National regulations:

Technical instructions (air):

Class Share in %
NK 50-100

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 R-phrases: 11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Marketing Department

* Data compared to the previous version altered.