



Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/03/2010

Reviewed on 03/23/2010

1 Identification of substance

- **Product details**
 - **Trade name:** ALT Primer 509
 - **Article number:** 185-000-120U
 - **Application of the substance / the preparation** Priming
 - **Manufacturer/Supplier:**
ALT Global, LLC
3 Edison Place,
Fairfield, NJ 07004 USA
Tel: 973-287-6158
Fax: 973-287-6159
 - **Information department:** Tel.: 973-287-6158
 - **Emergency information:**
For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
- DOMESTIC NORTH AMERIKA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

108-88-3	toluene	50-100%
123-86-4	n-butyl acetate	10-25%
1330-20-7	xylene	2.5-10%
123-42-2	4-hydroxy-4-methylpentan-2-one	2.5-10%
110-82-7	cyclohexane	<2.5%
64742-95-6	Lösungsmittelnaphtha (Erdöl), leichte aromatische;	<2.5%
53880-05-0	Isophorondiisocyanat homopolymer	<2%

3 Hazards identification

- **Hazard description:**



Harmful
Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.
Highly flammable.
Irritating to skin.
May cause sensitisation by skin contact.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of harm to the unborn child.
Contains isocyanates. See information supplied by the manufacturer.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

4 First aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Immediately remove any clothing soiled by the product.
- **After inhalation:**
Take affected persons into fresh air and keep quiet.
Seek medical treatment.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Protect unharmed eye.
Seek medical treatment.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Use respiratory protective device against the effects of fumes/dust/aerosol.

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- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
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.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
Store away from foodstuffs.
- **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 systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

108-88-3 toluene

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	75 mg/m ³ , 20 ppm NIC-BEI

123-86-4 n-butyl acetate

PEL	710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm

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1330-20-7 xylene

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm
BEI	

123-42-2 4-hydroxy-4-methylpentan-2-one

PEL	240 mg/m ³ , 50 ppm
REL	240 mg/m ³ , 50 ppm
TLV	238 mg/m ³ , 50 ppm

110-82-7 cyclohexane

PEL	1050 mg/m ³ , 300 ppm
REL	1050 mg/m ³ , 300 ppm
TLV	344 mg/m ³ , 100 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

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 and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**

Protective work clothing

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Solvent resistant protective clothing

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9 Physical and chemical properties

· General Information

Form: Fluid
Color: Yellowish
Odor: Like aromatic solvents

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 81°C (178°F)

· **Flash point:** -18°C (-0°F)

· **Ignition temperature:** 370°C (698°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower: 1.1 Vol %
Upper: 8.1 Vol %

· **Vapor pressure at 20°C (68°F):** 29 hPa (22 mm Hg)

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Kinematic at 20°C (68°F): 10 s (DIN 53211/4)

· Solvent content:

Organic solvents: 86.9 %
VOC content: 869.3 g/l / 7.25 lb/gl

· **Solids content:** 11.4 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.

· Dangerous products of decomposition:

Carbon monoxide and carbon dioxide
 Hydrogen chloride (HCl)
 Nitrogen oxides (NOx)

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)

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Inhalative	LC50/4 h	5320 mg/l (mouse)
1330-20-7 xylene		
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	5 mg/l (rat)
110-82-7 cyclohexane		
Oral	LD50	12705 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

12 Ecological information

· **Ecotoxicological effects:**

· **Acquatic toxicity:**

1330-20-7 xylene

LC/EC/IC50 | $1 < EC50 \leq 10$ mg/l (Wasserorganismen)

· **Remark:** Harmful to fish

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

13 Disposal considerations

· **Product:**

· **Recommendation:**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· **DOT regulations:**



· **Hazard class:**

3

· **Identification number:**

UN1263

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- **Packing group:** II
- **Proper shipping name (technical name):** PAINT
- **Label:** 3

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Label:** 3
- **Description of goods:** 1263 PAINT, special provision 640D

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** PAINT

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **Propper shipping name:** PAINT

15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
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- **Section 313 (Specific toxic chemical listings):**

108-88-3	toluene
1330-20-7	xylene
110-82-7	cyclohexane
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

- **TSCA (Toxic Substances Control Act):**

108-88-3	toluene
123-86-4	n-butyl acetate

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1330-20-7	xylene
123-42-2	4-hydroxy-4-methylpentan-2-one
110-82-7	cyclohexane
53880-05-0	Isophorondiisocyanat homopolymer
4098-71-9	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3 toluene

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
1330-20-7	xylene	I
110-82-7	cyclohexane	I

· **IARC (International Agency for Research on Cancer)**

108-88-3	toluene	3
1330-20-7	xylene	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

108-88-3	toluene	A4
1330-20-7	xylene	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Harmful
Highly flammable

· **Hazard-determining components of labelling:**

toluene
Isophorondiisocyanat homopolymer

· **Risk phrases:**

Highly flammable.
Irritating to skin.
May cause sensitisation by skin contact.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of harm to the unborn child.

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· Safety phrases:

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Avoid contact with skin and eyes.

Wear suitable gloves.

Avoid release to the environment. Refer to special instructions/safety data sheets.

· Special labeling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

*** 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.

· Department issuing MSDS: *Division product safety*

· Contact: *Division product safety*

· * Data compared to the previous version altered.

USA