1. Product and company identification

Product identifier

Trade name: Primer M 100

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

General use: For pre-treatment of surfaces
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de
Additional information: WEICON GmbH & Co. KG
Königsberger Straße 255
Münster 48157
www.weicon.de
info@weicon.de
+49(0)251 / 9322 - 0
+49(0)251 / 9322 - 244

Emergency phone number

GIZ, Bonn Germany (English)
Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Form: liquid
Color: colorless
Odor: solvent-like

Classification: Flammable Liquid - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3;

Hazard symbols:

Signal word: **Danger**

Hazard statements:
Highly flammable liquid and vapor.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use water fog, alcohol resistant foam, sand, dry chemical powder and carbon dioxide to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Mixture of the substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 67-63-0	Isopropyl alcohol	50 - 99.9 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 1760-24-3	N-(3-(Trimethoxysilyl) propyl) ethylenediamine	< 0.5 %	Eye Damage - Category 1. Sensitization - skin - Category 1.

4. First aid measures

General information: Take off immediately all contaminated clothing.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Consult physician immediately.
If victim is at risk of losing consciousness, position and transport on their side.

Following skin contact: Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes serious eye irritation.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:
53.6 °F

Auto-ignition temperature: no data available

Suitable extinguishing media:
Water fog, alcohol resistant foam, sand, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
Full water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor.
Air combined with vapors may form potentially explosive mixtures that are heavier than air.
Vapor may travel great distances and cause fire and backflashes.
May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:
Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Do not expose to high temperature. Danger of bursting and explosion. Cool exposed containers with water spray.
Move undamaged containers from immediate hazard area if it can be done safely.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions: Do not breathe vapors. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Wear protective equipment. Keep unprotected people away.
Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:
Do not allow to enter into ground-water, surface water or drains. Danger of explosion!
In case of release, notify competent authorities.

Methods for clean-up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling: Air combined with vapors may form potentially explosive mixtures that are heavier than air. Provide adequate ventilation, and local exhaust as needed. Do not breathe vapors. Avoid contact with skin and eyes. Wear protective equipment. Take off immediately all contaminated clothing.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Precautions against fire and explosion:
Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.
In partially filled containers explosive mixtures may form.

Storage

Requirements for storerooms and containers:
Keep container tightly closed in a cool, well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position. Protect from frost.

Hints on joint storage: Do not store together with acids, alkalis or oxidizing agents.
Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	USA: ACGIH: STEL	984 mg/m³; 400 ppm
		USA: ACGIH: TWA	492 mg/m³; 200 ppm
		USA: NIOSH: STEL	1225 mg/m³; 500 ppm
		USA: NIOSH: TWA	980 mg/m³; 400 ppm
		USA: OSHA: TWA	980 mg/m³; 400 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of workweek

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only non-sparking tools.
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Butyl caoutchouc (butyl rubber)
Layer thickness: 0.7 mm
Breakthrough time: >480 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
Use filter against vapors of low boiling organic substances according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
In case of prolonged or repeated exposures: use self-contained breathing apparatus.

General hygiene considerations:

Do not breathe vapor or spray. Avoid contact with skin and eyes. Take off immediately all contaminated clothing.
When using do not eat, drink or smoke. Wash hands before breaks and after work.
Have eye wash bottle or eye rinse ready at work place.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: liquid Color: colorless
Odor:	solvent-like
Odor threshold:	no data available
pH value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	179.6 °F
Flash point/flash point range:	53.6 °F
Evaporation rate:	no data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 2.00 Vol-% UEL (Upper Explosive Limit): 12.00 Vol-%
Vapor pressure:	at 68 °F: 48 hPa
Vapor density:	no data available
Density:	at 68 °F: 0.79 g/mL
Water solubility:	partially soluble
Partition coefficient: n-octanol/water:	no data available

Auto-ignition temperature:	no data available
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	at 68 °F: 2 mPa*s (Brookfield)
Explosive properties:	Vapors may form explosive mixtures with air.
Ignition temperature:	662 °F
Solvent content:	99.1 %

10. Stability and reactivity

Reactivity: Highly flammable liquid and vapor.
Vapors may form explosive mixtures with air.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions
Do not expose to high temperature. Danger of bursting and explosion.
Reacts with acids, alkalis, and oxidizing agents.

Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.

Incompatible materials: Acids, alkalis, oxidizing agents
Do not store together with combustible or self-igniting materials or any highly flammable solids.

Hazardous decomposition products:
May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: carbon monoxide and carbon dioxide.

Thermal decomposition: No decomposition when used properly.

11. Toxicological information

Toxicological tests

Toxicological effects:

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin -
Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about Isopropyl alcohol:
LD50 Rat, oral: 5840 mg/kg bw (OECD 401)
LD50 Rabbit, dermal: 13900 mg/kg bw (OECD 402)
LC50 Rat, inhalative: > 100 mg/L/6h (OECD 403)
For carcinogenic effects:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Symptoms

Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Information about Isopropyl alcohol: Toxic effect on fishes and plankton.

Algae toxicity:
EC50 Green algae: >100 mg/L/72h.

Bacterial toxicity:
EC5 Pseudomonas putida: 1050 mg/L/16h.

Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 9714 mg/L/48h.

Fish toxicity:
LC50 Lepomis macrochirus (bluegill): 1400 mg/L/96h.
LC50 Leuciscus idus test: 8970 mg/L/48h.
LC50 Pimephales promelas (fathead minnow): 9640 mg/L/96h.

Mobility in soil

no data available

Persistence and degradability

Further details: Biodegradation:
Information about Isopropyl alcohol: Product is readily biodegradable.

Additional ecological information

Volatile organic compounds (VOC):
99.1 % by weight = 782.9 g/L

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of as hazardous waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers:	UN1219
Proper shipping name:	UN 1219, ISOPROPANOL or Isopropyl alcohol
DOT hazard class or division:	3
PG:	II
Label codes:	3
Special provisions:	IB2, T4, TP1
Packaging - Exceptions:	4b, 150
Packaging - Non-bulk:	202
Packaging - Bulk:	242
Quantity limitations - Passenger aircraft / rail:	5 L
Quantity limitations - Cargo only:	60 L
Vessel stowage - Location:	B

Sea transport (IMDG)

UN number:	UN 1219
Proper shipping name:	UN 1219, ISOPROPANOL (ISOPROPYL ALCOHOL)
IMDG:	Class 3, Subrisk -
Packing Group:	II
EmS:	F-E, S-D
Special provisions:	-
Limited quantities:	1 L
EQ:	E2
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1
Stowage and handling:	Category B.
Properties and observations:	Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12%. Miscible with water.
Marine pollutant:	no
Segregation group:	none

Air transport (IATA)

UN/ID number:	UN 1219
Proper shipping name:	UN 1219, ISOPROPANOL (ISOPROPYL ALCOHOL)
ICAO/IATA:	Class 3
PG:	II
Hazard:	Flamm. liquid
EQ:	E2
Passenger Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisioning:	A180
ERG:	3L

15. Regulatory information

National regulations - U.S. Federal Regulations

Isopropyl alcohol:

TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0359

N-(3-(Trimethoxysilyl)propyl)ethylenediamine:

TSCA Inventory: listed
TSCA HPVC: not listed

National regulations - U.S. State Regulations

Isopropyl alcohol:

Idaho Air Pollutant List:
Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -
Massachusetts Haz. Substance codes: 2,4,5,6 F9
Minnesota Haz. Substance:
Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT: 1219 - Sub No.: 1076 - TPQ: -
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 400 ppm - 980 mg -- STEL: 500 ppm - 1225 mg

National regulations - Great Britain

Hazchem-Code: •2YE

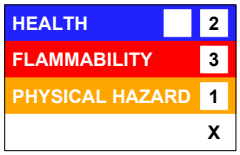
16. Other information

Text for labeling: Contains 50 - 99.9 % Isopropyl alcohol, < 0.5 % N-(3-(Trimethoxysilyl)propyl)ethylenediamine. Safety data sheet available on request.

Hazard rating systems:

NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 1 (Slight)

HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 3 (Serious)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor



Date of first version: Jan/19/2016

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.