



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Jan/2/2017

Version: 4

Language: en-US

Date of print: Jan/10/2017

Rust Protection 2000 Plus, silver-grey

Material number 110130

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1. Product and company identification

Product identifier

Trade name: Rust Protection 2000 Plus, silver-grey

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

General use: Rust-proofing agent

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

Emergency phone number

EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554

Transport:

TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Form: Aerosol

Color: gray

Odor: characteristic

Classification: Aerosol - Category 1; Sensitization - skin - Category 1; Carcinogenicity - Category 2;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Pressurised container: May burst if heated.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see 'First aid' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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

Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
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. Danger of metabolic acidosis.
Causes mild skin irritation.
see section 11: Toxicological information



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3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 1330-20-7	Xylene (isomeric mixture)	< 10 %	Flammable Liquid - Category 3. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2.
CAS 64742-95-6	Hydrocarbons, C9, aromatics	< 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	< 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 123-86-4	n-Butyl acetate	< 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 7429-90-5	Aluminium powder, phlegmatized	< 10 %	Flammable Solid - Category 1. Water-reactive - Category 2.
CAS 1314-13-2	Zinc oxide	< 2.5 %	Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 96-29-7	2-Butanone oxime (MEKO)	< 1 %	Acute Toxicity - dermal - Category 4. Eye Damage - Category 1. Sensitization - skin - Category 1. Carcinogenicity - Category 2.
CAS 61790-69-0	Fatty acids, tall-oil, reaction products with diethylenetriamine	< 0.25 %	Acute Toxicity - oral - Category 3. Skin Corrosion - Category 1B. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 106-97-8	n-Butane, pure	10 - 20 %	Flammable Gas - Category 1. Compressed Gas.
CAS 74-98-6	Propane	10 - 20 %	Flammable Gas - Category 1. Liquefied Gas.

4. First aid measures

In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
Following skin contact:	Wash with generous amount of water and soap. Take off contaminated clothing and wash it before reuse. Consult a doctor if skin irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.

Most important symptoms/effects, acute and delayed

May cause an allergic skin reaction. May cause drowsiness or dizziness.



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Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

-142.6 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

Alcohol resistant foam, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Water

Specific hazards arising from the chemical

Extremely flammable aerosol. Vapors form potentially explosive mixtures with air, which are heavier than air. Air-Vapor mixture may travel great distances at floor level and lead to backflash when exposed to an ignition source.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. Do not breathe fumes.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone.

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:

Eliminate all ignition sources if safe to do so.

Provide adequate ventilation. Do not breathe vapor or spray.

Wear appropriate protective equipment. Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. In case of release, notify competent authorities.

Methods for clean-up:

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed.

Use only in well-ventilated areas. Do not breathe vapor or spray.

Wear appropriate protective equipment. Avoid contact with skin and eyes.

Precautions against fire and explosion:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

Use only non-sparking tools. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.



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Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Keep only in the original container.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with combustible or self-igniting materials or any highly flammable solids.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1330-20-7	Xylene (isomeric mixture)	USA: OSHA: TWA	435 mg/m ³ ; 100 ppm
123-86-4	n-Butyl acetate	USA: NIOSH: STEL USA: NIOSH: TWA USA: OSHA: TWA	950 mg/m ³ ; 200 ppm 710 mg/m ³ ; 150 ppm 710 mg/m ³ ; 150 ppm
7429-90-5	Aluminium powder, phlegmatized	NIOSH: Ceiling	5 mg/m ³ (inhalable fraction)
		USA: ACGIH: TWA USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	1 mg/m ³ 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (inhalable fraction) 15 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
1314-13-2	Zinc oxide	NIOSH: Ceiling USA: ACGIH: STEL USA: ACGIH: TWA USA: NIOSH: STEL USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	15 mg/m ³ Dusts 10 mg/m ³ (respirable fraction) 2 mg/m ³ (respirable fraction) 10 mg/m ³ Smoke 5 mg/m ³ Dusts 5 mg/m ³ Smoke 15 mg/m ³ inhalable fraction 5 mg/m ³ (respirable fraction)
106-97-8	n-Butane, pure	USA: ACGIH: TWA USA: NIOSH: TWA	2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm
74-98-6	Propane	USA: NIOSH: TWA USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
1330-20-7	Xylene (isomeric mixture)	USA: ACGIH-BEI, urine	1.5 g/g creatinine	Methylhippuric acids	end of exposure or end of shift

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

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: Wear suitable protective clothing.



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Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness: ≥ 0.7 mm
Breakthrough time: ≥ 60 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.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Keep away from heat sources, sparks and open flames.
Do not breathe vapor or spray. Use only in well-ventilated areas.
Change contaminated clothing. Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.
Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: Aerosol Color: gray
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	-47.2 °F
Flash point/flash point range:	-142.6 °F
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	immiscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Container under pressure. Heating will lead to pressure increase: Danger of bursting and explosion.



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- Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 122 °F.
- Incompatible materials: Do not store together with combustible or self-igniting materials or any highly flammable solids.
- Hazardous decomposition products:
In case of fire may be liberated: Carbon monoxide and carbon dioxide.
- Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
- ATEmix (estimated): > 2000 mg/kg
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
- ATEmix dusts/mist (estimated): > 5 mg/L/4h
- Skin corrosion/irritation: Lack of data.
- Eye damage/irritation: Lack of data.
- 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: Carcinogenicity - Category 2 = Suspected of causing cancer.
- 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 Xylene:
LD50 Rat, oral: 3523 mg/kg
LD50 Rabbit, dermal: 12126 mg/kg
LC50 Rat, inhalative: 27.6 mg/m³/4h
- Information about Hydrocarbons, C9, aromatics:
LD50 Rat, oral: 3492 mg/kg
LD50 Rabbit, dermal: > 3160 mg/kg
LC50 Rat, inhalative: > 6.2 mg/m³
- Information about Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):
LD50 Rat, oral: > 15000 mg/kg
LD50 Rabbit, dermal: > 3400 mg/kg
LC50 Rat, inhalative: > 13.1 mg/m³/4h

Symptoms

- In case of inhalation:
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Other symptoms: Breathing difficulty, headache, dizziness, nausea, unconsciousness.
Vapors may cause drowsiness and dizziness. Higher doses may have a narcotic effect.
Danger of metabolic acidosis.



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Hydrocarbons, C9, aromatics:
Fish toxicity: LL50 *Oncorhynchus mykiss*: 9.2 mg/L/96h (OECD 203)
Daphnia toxicity: EL50 *Daphnia magna* (Big water flea): 3.2 mg/L/48h (OECD 202)
Algae toxicity: ELb50 *Pseudokirchneriella subcapitata* (green algae): 2.6 mg/L/72h (OECD 201)
Information about Zinc oxide:
Fish toxicity: LC50 *Oncorhynchus mykiss*: 1.1 mg/L/96h
Daphnia toxicity: EC50 *Daphnia magna* (Big water flea): > 1000 mg/L/48h
Algae toxicity: EC50 *Selenastrum capricornutum*: 0.14 - 0.17 mg/L/72h

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.
Avoid spills and leaks. Very small amounts contaminates drinking water.

13. Disposal considerations

Product

Recommendation: Special waste. Do not open with force or incinerate, even when empty.
Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Empty carefully and completely, if possible.
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 number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126





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Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2, Subrisk-, see SP63
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantities: See SP277
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L



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15. Regulatory information

National regulations - U.S. Federal Regulations

Xylene (isomeric mixture):

TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Clean Air Act:
Hazardous Air Pollutants: Code XOY
SOCMI Chemical: yes
Clean Water Act:
Hazardous Substances: RQ 100 lbs.
Other Environmental Laws:
CERCLA: RQ 100 lbs.
RCRA Hazardous Wastes: Code U239
RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 5, 5
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Stan

Hydrocarbons, C9, aromatics:

TSCA Inventory: listed
TSCA HPVC: not listed

Hydrocarbons, C9-C12, n-alkanes,
isoalkanes, cyclics, aromatics (2-25%):

TSCA Inventory: listed; UVCB
TSCA HPVC: not listed

n-Butyl acetate:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Water Act:
Hazardous Substances: RQ 5000 lbs.
Other Environmental Laws:
CERCLA: RQ 5000 lbs.
NIOSH Recommendations:
Occupational Health Guideline: 0072

Aluminium powder, phlegmatized:

TSCA Inventory: listed
TSCA HPVC: not listed
Other Environmental Laws:
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Stan
NIOSH Recommendations:
Occupational Health Guideline: 0022

Zinc oxide:

TSCA Inventory: listed
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0675*

2-Butanone oxime (MEKO):

TSCA Inventory: listed
TSCA HPVC: not listed

n-Butane, pure:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing =
NIOSH Recommendations:
Occupational Health Guideline: 0068*

Propane:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing =
NIOSH Recommendations:
Occupational Health Guideline: 0524



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National regulations - U.S. State Regulations

Xylene (isomeric mixture):

Delaware Air Quality Management List:

DRQ: 100 - RQ State: Federal Regulations Apply

Idaho Air Pollutant List:

Title 585 -- Title 586 --

Maine Hazardous Air Pollutants:

Me 2005: HAP - Hap Rpt: 2000

Massachusetts Haz. Substance codes: 2,4 F8 F9

Michigan Critical Material:

Note: - CMR: 44 - Parameter: 01330-20-7 - Annual Usage Parameter

Minnesota Haz. Substance:

Codes: ANO - Ratings: 8.77 - Status: Air Pollutant. Title III. TRI.

New Jersey RTK Hazardous Substance:

DOT: 1307 - Sub No.: 2014 - TPQ: -

New York List of Hazardous Substances:

RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this ch

Pennsylvania Haz. Substance code: E

Washington Air Contaminant:

TWA: 100 ppm / 435 mg - STEL: 150 ppm / 655 mg

n-Butyl acetate:

CAS# 123-86-4 can be found on the following state right to know lists:

- California, Massachusetts, Minnesota, New Jersey, Pennsylvania.

n-Butane, pure:

Delaware Air Quality Management List:

DRQ: F 1000** - RQ State: State requirements differs from Federal

Massachusetts Haz. Substance codes: 4,5,6

Minnesota Haz. Substance:

Codes: A - Ratings: - - Status: Title III

New Jersey RTK Hazardous Substance:

DOT: 1011 - Sub No.: 0273 - TPQ: -

Pennsylvania Haz. Substance code: -

Washington Air Contaminant:

TWA: 800 ppm - 1900 mg

National regulations - Great Britain

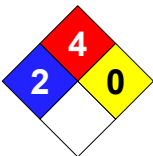
Hazchem-Code: -

16. Other information

Text for labeling:

Contains < 10 % Xylene (isomeric mixture), < 10 % Hydrocarbons, C9, aromatics, < 10 % Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), < 10 % n-Butyl acetate, < 10 % Aluminium powder, phlegmatized, < 2.5 % Zinc oxide, < 1 % 2-Butanone oxime (MEKO), < 0.25 % Fatty acids, tall-oil, reaction products with diethylenetriamine, 10 - 20 % n-Butane, pure, 10 - 20 % Propane. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
		X

Reason of change:

ADR/RID 2017, IMDG 2017

Date of first version:

Sep/21/2015



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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.