

## SAFETY DATA SHEET

### 1. Chemical product identification and manufacturer and/or supplier information

Product Name: Washprimer CF 1+1 (phosphatic primer CF 1+1)

Manufacturer / Supplier: ECOPOL LLC  
 Suvorov str. 35, Dzerzhinsk, 606010, Nizhny Novgorod Region, Russia  
 Telephone number: (8313) 230351; 230839; 230781; 230746  
 Phone/Fax: (8313) 254103; 274016

1.2 Emergency Phone No.:  
 In case of emergency contact with the National Emergency Center.

### 2. Hazard(s) identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No. 1272/2008:

H225:	Highly flammable liquid and vapour	Flammable liquids, Hazard Category 2
H315:	Causes skin irritation	Skin corrosion/irritation, Hazard Category 2
H318:	Causes serious eye damage	Serious Eye Damage / Eye Irritation. Hazard Category 1
H302:	Harmful if swallowed	Acute toxicity (oral), Hazard Category 4
H335:	May cause respiratory irritation	Specific toxicity for specific organ. Hazard Category 3
H336:	May cause drowsiness or dizziness	Specific toxicity for specific organ. Hazard Category 3
EUH066:	Repeated exposure may cause skin dryness or cracking	

· 2.2 Label elements

· Labeling according to Regulation (EC) No. 1272/2008:

This product is classified and labeled according to the Regulations for Substance and Mixture Classification, Labeling, and Packaging (CLP).

· Safety icons:



GHS02    GHS07    GHS05

· Signal word: Danger

· Hazard-determining components of labeling:

Butanol

· Hazard warnings:

H225:	Highly flammable liquid and vapour
H315:	Causes skin irritation
H318:	Causes serious eye damage
H302:	Harmful if swallowed
H335:	May cause respiratory irritation
H336:	May cause drowsiness and dizziness
EUH066:	Repeated exposure may cause skin dryness or cracking

· Precautions:

P210:	Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P261:	Avoid breathing dust/fume/gas/mist/vapours/spray
P271:	Use only outdoors or in a well-ventilated area
P280:	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P305+P351+	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
P338+ P310:	present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
P 312:	Call a POISON CENTER or doctor/physician if you feel unwell
P 273:	Avoid release to the environment
P102:	Keep out of reach of children

· 2.3 Other hazards:









No information.

### 3. Composition (information on ingredients)

· 3.2 Chemical characterization: Mixtures

· Description: Mixture of below-listed substances with non-hazardous additives.

· Hazardous substances contained:

Chemical Name	H-Phrases	Icons, signal word (codes)
Butan-1-ol (butanol) Concentration, % (by weight) 21-65 CAS No. 71-36-3 EINECS No. 200-751-6 Index Number 603-004-00-6 REACH No. 01-2119484630-38-XXXX	Flam. Liq. 3 H226 Acute Tox. 4 * H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 STOT SE 3 H336	 GHS02  GHS07  GHS05 Dgr
Isopropyl alcohol (propan-2-ol) Concentration, % (by weight) 14-42 CAS No. 67-63-0 EINECS No. 200-661-7 Index Number 603-117-00-0 REACH No. 01-2119457558-25-XXXX	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	 GHS02  GHS07 Dgr
Polyvinyl butyral Concentration, % (by weight) 3-10 CAS No. 63148-65-2 EINECS No. Index Number REACH No.	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 (respiratory sys...)	 GHS07 Wng
Acetone (Propan-2-one) Concentration, % (by weight) 0-10 CAS No. 67-64-1 EINECS No. 200-662-2 Index Number 606-001-00-8 REACH 01-2119471330-49-XXXX	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 EUH066	 GHS02  GHS07 Dgr

#### 4. First aid measures

##### · 4.1 Description of the first aid measures

###### · General guides:

Remove the pieces of clothing contaminated with this product immediately.

Toxicity symptoms may appear even after many hours, therefore there is a necessity for medical supervision for at least 48 hours after accident (casualty).

###### · After inhalation:

Supply fresh air or oxygen, seek medical advice.

In loss of consciousness (syncopal state), put a patient on the side in stable position for transportation.

###### · After skin contact:

Wash with water and soap immediately, rinse well.

Get medical attention.

###### · After eye contact:

Wash an open eye with running water for several minutes, then get medical advice/attention.

Remove contact lenses, if any, and continue eye washing.

###### · In case of ingestion:

Rinse mouth and drink a plenty of water. DO NOT induce vomiting. Get medical advice/ attention.

##### · 4.2 The most critical symptoms and effects, both immediate and subsequent:

There's no any respective information.

##### · 4.3 Indication of immediate medical attention and special treatment:

symptomatic treatment.

#### 5. Fire-fighting measures

##### · 5.1 Extinguishing facilities

###### · Suitable extinguishing media:

CO<sub>2</sub>, extinguishing powder or fine-sprayed (-sprinkled) water jet.

Large fire extinguishing with fine-sprayed (-sprinkled) water jet or alcohol foam.

###### · Extinguishing media unsuitable for safety reasons:

Full-jet water.

##### · 5.2 Special hazards from substance or mixture:

In case of fire, the following can be released:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

##### · 5.3 Advice for firefighters

Protective equipment: Put on a self-contained respiratory protection unit. Use force-ventilated respiratory protection equipment.

###### · Further information:

Cool the exposed tanks with fine-sprinkled water jet.

Fire residues and contaminated fire-fighting water must be disposed of according to the instructions of administrative services.

#### 6. Accidental release measures

##### · 6.1 Personal precautions, protective equipment, and emergency procedures:

Put on protective equipment. Keep unprotected people away.

Provide for sufficient ventilation.

Keep away from ignition sources.

Use a unit for respiratory protection against vapor / dust / aerosol.

Avoid contact with skin and eyes.

• 6.2 Environmental precautions:

Do not allow entering sewers/ surface or ground water/ ditches and basements.

If entered water basins or sewers, communicate it to the respective services.

• 6.3 Methods and materials for containment and cleaning up:

Provide for sufficient ventilation.

Collect using liquid-binding material (sand, kizelgur, acid restraining, multi-purpose restringents, and sawdust).

Send it for recovery or disposal in suitable tanks.

Dispose of collected material according to the instructions.

• 6.4 Reference to other sections:

For safe handling information, see Chapter 7.

For personal protective equipment information, see Chapter 8.

For disposal information, see Chapter 13.

## 7. Chemical product storage and handling regulations

· 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Ensure good air ventilation, especially at the floor level (vapors are heavier than air)

Amount of stock at the workplace should be limited.

Use exclusively in well-ventilated areas.

Avoid contact with skin and eyes.

Do not breathe smoke / aerosol.

Make sure that the entire area used of a production premise is examined.

· Fire and explosion protection guides:

Vapors may produce explosive mixtures with air.

In empty container, air-gas mixtures able to ignite may form.

Keep away from the sources of ignition/heating/ sparks/open fire. Do not smoke.

Take precautionary measures against static discharge.

Use explosion-proof instruments / fittings and sparkless tools.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· The requirements imposed on warehouse premises and containers:

Store in a cool location.

Adhere to the flammable liquid storage regulations.

Adhere to the water-blocking regulations.

· Guides on compatibility with other substances in storage:

Adhere to the flammable liquid storage regulations.

· Further data for storage conditions:

Store the tank in well-ventilated area.

Store in tightly closed container at cool and dry area.

Protect against heating and direct sunlight.

## 8. Substance impact limitation and control / personal protective equipment

· 8.1 Control parameters

· The components with limit values requiring in-place monitoring:

CAS No. 71-36-3 butanol

MPC (RF) maximal one-time: 30 mg/m<sup>3</sup>

Shift-average: 10 mg/m<sup>3</sup>

CAS No. 67-63-0 isopropyl alcohol (propan-2-ol)

MPC (RF) maximal one-time: 50 mg/m<sup>3</sup>

Shift-average: 10 mg/m<sup>3</sup>

CAS No. 67-64-1 acetone (propan-2-one)

MPC (RF) maximal one-time: 800 mg/m<sup>3</sup>

Shift-average: 200 mg/m<sup>3</sup>

DNEL values

CAS No. 71-36-3 butanol

Application: employee (inhalation)

Potential health effect: Long exposure - systemic effects: low-hazard (threshold value is not defined)

Long exposure - local effects: 310 mg/m<sup>3</sup>

Application: employee (inhalation)

Potential health effect: Short exposure - systemic effects: no hazard identified

Application: employee (dermatitis)

Potential health effect: Long exposure - systemic effects: low-hazard (threshold value is not defined)

Application: employee (dermatitis)

Potential health effect: Short exposure: no hazard identified

CAS No. 67-63-0 Isopropyl alcohol  
 Application: employee (inhalation)  
 Potential health effect: Long exposure - systemic effects: no information  
 Application: employee (inhalation)  
 Potential health effect: Short exposure - systemic and local effects: no information  
 Application: employee (dermatitis)  
 Potential health effect: Long exposure - systemic effects: no information  
 Application: employee (dermatitis)  
 Potential health effect: Short exposure - local effects: no information

CAS No. 67-64-1 acetone  
 Application: employee (inhalation)  
 Potential health effect: Long exposure - systemic effects: low-hazard (threshold value is not defined)  
 Application: employee (inhalation)  
 Potential health effect: Short exposure - local effects: low-hazard (threshold value is not defined)  
 Application: employee (dermatitis)  
 Potential health effect: Long exposure - systemic effects: low-hazard (threshold value is not defined)  
 Application: employee (dermatitis)  
 Potential health effect: Short exposure: low-hazard (threshold value is not defined)

**PNEC values**

CAS No 71-36-3 Butanol  
 freshwater: 0.082mg/l  
 marine water 0.008 mg/l  
 soil 0,017 mg/kg of soil dry weight  
 CAS No. 67-63-0 isopropyl alcohol  
 freshwater: 140.9 mg/l  
 marine water: 140.9 mg/l  
 soil 28 mg/kg of soil dry weight  
 CAS No. 67-64-1 acetone  
 freshwater: 10.6 mg/l  
 marine water: 1.06 mg/l  
 soil 29.5 mg/kg of soil dry weight

- Further instructions:  
 The data up-to-date when written was as a basis.
- 8.2 Exposure Controls / Personal Protection
- Personal protection equipment:
- General exposure-protection and hygienic measures:  
 Keep away from foodstuffs, beverages and animal feed.  
 During work, it is forbidden to eat, drink, smoke or sniff tobacco.  
 Remove all the clothes contaminated and impregnated with harmful substances.  
 Do not breathe gases/vapors/aerosols.  
 Avoid contact with skin and eyes.  
 Wash hands before breaks and at the end of work.  
 Do not keep dusters / cleaning rags at the pockets of product-impregnated trousers.
- Respiratory Protection:  
 If the workplaces are provided with well ventilation, no precautions are required.
- Hand protection:  
 Rubber gloves.
- Eye protection: Closely fitting goggles.
- Body protection:  
 Protective work clothing  
 Body protection must be selected according to activity type and possible exposure.
- Ecological impact limitation and control:  
 Do not allow to enter sewers/ surface or ground water.

**9. Physical and chemical properties**

- 9.1 Information on the basic physical and chemical properties
- General information

Appearance	Liquid
Colour	Intended
Odor	Organic solvents
pH	Not specified
Boiling point	Not specified
Flash point (closed cup)	Plus 34°C (butan-1-ol) Plus 12°C (propan-2-ol) Minus 18°C (propan-2-one)

Self-ignition temperature	Plus 345°C (butan-1-ol) Plus 455°C (propan-2-ol) Plus 547°C (propan-2-one)
Density g/cm <sup>3</sup>	0,9
Viscosity (relative, sec)	Not specified
Lower explosion limit, % -volume	1,7(butan-1-ol) 2,0 (propan-2-ol) 2.2 (propan-2-one)
Upper explosion limit, %-volume	12,0(butan-1-ol) 12,0 (propan-2-ol) 13.6 (propan-2-one)
Vapor Density (Pa/20°C):	Not specified
Non-volatile matter mass fraction content %	18, not less than
Solubility in water	Insoluble

· 9.2 Other information: There's no any respective information.

## 10. Stability and reactivity

### 10.1 Chemical stability:

Stable under the recommended product storage and handling conditions.

### 10.2 Reactivity:

None under the recommended product storage and handling conditions.

### 10.3 Conditions to avoid:

Direct sunlight, high temperatures, open flame, and sparks.  
 Contact with strong oxidizers, peroxides, strong acids and bases.

### 10.4 Hazardous decomposition products:

Thermal decomposition may produce carbon monoxide and other toxic gases.

## 11. Toxicological data

### · 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values (lethal dose/concentration) necessary for classification:

CAS No 71-36-3 butanol

Orally (by mouth) LD50 2292 mg/kg bw (rat)

Dermally (dermal contact) LD50 3430 mg/kg bw (rabbit)

Inhalative (by breathing) LC0/4h 17.76 mg/l (rat)

CAS No. 67-63-0 Isopropyl alcohol

Orally (by mouth) LD50 5.84 g/kg bw (rat)

Dermally (dermal contact) LD50 16.4 ml/kg bw (rabbit)

Inhalative (by breathing) LC50/6h 10000 ppm (rat)

CAS No. 67-64-1 acetone

Orally (by mouth) LD50 5800 mg/kg bw (rat)

Dermally (dermal contact) LD50 7426 - 15800 mg/kg (rabbit)

Inhalative (by breathing) LC50/3h 132 mg/l (rat)

· Primary irritant effect:

· on skin: Long-time and repeated contacts may degrease skin and induce dermatitis. May induce allergic reaction.

· on eyes: Irritating effect.

· Toxicity - from subacute to chronic: not related.

· Additional toxicological directions:

Based on the calculation method of the General Classification Directive EC for Preparations as revised (updated), the product poses the following hazard types:

Harmful to health.

Irritating.

Hazard through skin absorption.

· Information on the following potential impact groups:

· Sensibilization Unaware of sensitizing impact.

· Reintaking toxicity: not defined.

· Carcinogenic, heredity-changing and infertility-inducing action:

As per contemporary knowledge, no CMR effects are known.

## 12. Ecological information

### · 12.1 Toxicity

CAS No 71-36-3 butanol

EC50 / LC50 225 mg/l / for algae

EC10 / LC10 or NOEC 129 mg/l/ for algae

NOEC/ 21 days 4.1 mg/l / for aquatic invertebrates  
 EC50 /21 days 18 mg/l / for aquatic invertebrates  
 LC50/96h 1.376 g/l/ for fish  
 NOEC/96h 519 mg/l /for fish  
 CAS No. 67-63-0 Isopropyl alcohol  
 LC50/24h 10 g/l / for aquatic invertebrates  
 LC0/24h 5 g/l / for aquatic invertebrates  
 LC50/96h 9.64 - 10 g/l / for fish  
 CAS No. 67-64-1 acetone  
 NOEC/28 days 1.106 – 2.212 g/l / for aquatic invertebrates  
 LC50/24h 2.1 g/l / for aquatic invertebrates  
 LC50/96h 5.54 – 8.12 g/l / for fish

- 12.2 Persistence and degradability:  
 There's no any respective information.
- 12.3 Bioaccumulative potential: There's no any respective information.
- 12.4 Mobility in soil: There's no any respective information.

· Additional ecological directions:  
 · General guides:

The product contains volatile organic components. Prevent the product from getting into earth, water, water basin, sewers, and biological treatment plants.

- 12.5 PBT (persistent bioaccumulative toxin) and vPvB (very persistent and very accumulative) evaluation results:  
 · PBT: No information.  
 · vPvB: No information.

- 12.6 Other harmful effects: There's no any respective information.

### 13. Disposal instructions

- 13.1 Waste processing techniques

· Recommendation:

Elimination (removal) according to the instructions of administrative services.

· European waste list:

Waste classification No. is assigned according to place of origin and recycling method.

· Contaminated tare:

· Recommendation:

Do not collect with household waste. Give a contaminated container to the subjects that have received waste collection, recycling, and neutralization permission from competent body.

### 14. Transport data

		ADR/RID	IMDG	IATA
14.1	UN number	1139	1139	1139
14.2	UN shipping name	COATING SOLUTION		
14.3	Transport Classification:	3	3	3
14.4	Packing Group	III	III	III
14.5	Dangerous for the environment: · Marine pollutant:	None	None	None
14.6	Special precautions for users: Do not carry together with Category 1; Category 4.2; Category 4.3; and Category 5 materials. Do not use open flame, do not smoke			

### 15. Prescriptions

- 15.1 Safety norms, workplace safety rules and ecological norms or standards, applicable for substance or mixture

· National prescriptions:

· Information on use limitation:

Teenager employment limitations must be considered.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16. Other information

The data is based on the up-to-date knowledge but it is not a guaranty of any specific properties of the product and establishes no legally effective contractual relations.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG:	International Maritime Code for Dangerous Goods

IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
REACH:	Registration Evaluation and Authorisation of Chemicals
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
NOEC:	no observed effect concentration
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
TGK	Toxische Grenzkonzentration or "toxicity threshold concentration"
Flam. Liq. 3	Flammable liquids, Hazard Category 3
Acute Tox. 4 *	Acute toxicity, Hazard Category 4
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1	Serious Eye Damage / Eye Irritation. Hazard Category 1
STOT SE 3	Specific target organ toxicity, Hazard Category 3
Flam. Liq. 2	Flammable liquids, Hazard Category 2
Eye Irrit. 2	Serious Eye Damage / Eye Irritation Category 2
GHS02	Hazard icon: flame
GHS05	Hazard icon: corrosion
GHS07	Hazard icon: exclamation point
Dgr	Danger
Wng	Warning
H225:	Highly flammable liquid and vapour.
H226:	Flammable liquid and vapour.
H302:	Harmful if swallowed
H315:	Causes skin irritation
H318:	Causes serious eye damage
H319:	Causes serious eye irritation
H335:	May cause respiratory irritation
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