

SAFETY DATA SHEET

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

1.1 Product Name: Acryl clear HS (HS Clear Premium LV, acryl clear HS LV)

Manufacturer / Supplier: ECOPOL LLC
Suvorov str. 35, Dzerzhinsk, 606010, Nizhny Novgorod Region, Russia
Telephone number: +7 8313 230351; 230839; 230781; 230746
Phone/Fax: +7 8313 254103; 274016

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

The product is intended for industrial or professional use only.

1.3 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:

H226:	Flammable liquid and vapour	Flammable liquid. Hazard Category 3
H317:	May cause an allergic skin reaction	Skin sensitization. Hazard Category 1
H332:	Harmful if inhaled	Acute toxicity. 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

· 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

· Signal word: Warning.

· Hazard-determining components of labeling:
xylene,
butyl acetate.

· Hazard warnings:

H226:	Flammable liquid and vapour;
H317:	May cause an allergic skin reaction;
H332:	Harmful if inhaled;
H335:	May cause respiratory irritation;
H336:	May cause drowsiness or dizziness.

· 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;
P312:	Call a POISON CENTER or doctor/physician if you feel unwell;
P273:	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 and Signal Word (Codes)
Dimethylbenzene (xylene)	Flam. Liq. 3 H226	 GHS02

Concentration, % (by weight) 11-39 CAS No. 1330-20-7 EINECS No. 215-535-7 Index Number 601-022-00-9 REACH No. 01-2119488216-32-XXX	Acute Tox. 4 * H312 Skin Irrit. 2 H315 Acute Tox. 4 * H332	 GHS07 Wng
N-Butyl acetate (butyl acetate) Concentration, % (by weight) 9-28 CAS No. 123-86-4 EINECS No. 204-658-1 Index Number 607-025-00-1 REACH No. 01-2119485493-29-XXX	Flam. Liq. 3 H226 STOT SE 3 H336	 GHS02  GHS07 Wng
1-methoxypropane-2-ol acetate (methoxy propyl acetate) Concentration, % (by weight) 4-10 CAS No. 108-65-6 EINECS No. 203-603-9 Index Number 607-195-00-7 REACH No. 01-2119475791-29-XXX	Flam. Liq. 3 H226	 GHS02 Wng
hydrocarbons, C9, aromatic Concentration, % (by weight) 2-8 CAS No. 64742-95-6, 128601-23-0 EINECS NO. 918-668-5 Index Number 649-356-00-4 REACH No. 01-2119455851-35- XXXX	Flam. Liq. 3 H226 Asp. Tox. 1 H304 STOT SE 3 H335 STOT SE 3 H336 Aquatic Chronic 2 H411	 GHS02  GHS07  GHS08  GHS09 Dgr
Mixture: a-3- (3- (2H-benzoatriazole-2-il) -5-tert-butyl-4-hydroxyphenyl) propionyl-ω-hydroxypoly (oxyethylene); α-3- (3- (2H-benzoatriazole-2-il) -5-tert-butyl-4-hydroxyphenyl) propionyl-ω-3- (3- (2H-benzoatriazole-2-il) -5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene) Concentration, % (by weight) 0-1.5 CAS No. 104810-47-1, 104810-48-2 EINECS No. 400-830-7 Index Number 607-176-00-3 REACH No. 01-0000015075-76 -XXXX	Skin Sens. 1 H317 Aquatic Chronic 2 H411	 GHS07  GHS09 Wng

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 after many hours, therefore medical supervision is necessary for at least 48 hours after accident (casualty).

· After inhalation:

Supply fresh air or oxygen, seek medical care.

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. Remove contact lenses, if any, continue eye washing, and get medical advice.

· In case of ingestion:

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

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

There is 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:

CO₂, 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) and carbon dioxide (CO₂).

· 5.3 Advice for firefighters

· Protective equipment: Put on a self-contained respiratory protection unit.

· Further information:

Cool exposed tanks with fine-sprinkled water jet.

Fire residues and contaminated 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 restringent, 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 with air may form explosive mixtures.

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. 1330-20-7 xylene (isomer mixture)

MPC (RF) maximal one-time: 150 mg/m³

Shift-average: 50 mg/m³

CAS No. 123-86-4 N-butyl acetate

MPC (RF) maximal one-time: 200 mg/m³

Shift-average: 50 mg/m³

CAS No. 108-65-6: 1-methoxypropane-2-ol acetate

MPC (RF) maximal one-time: 10 mg/m³

MPC (Maximum Permissible Concentration, USA): 50 ppm; 275 mg/m³;

DNEL values

CAS No. 1330-20-7: xylene

Application: employee (inhalation)

Potential health effect: Long exposure - systemic effects: 221 mg/m³

Application: employee (inhalation)

Potential health effect: Short exposure - systemic and local effects: 442 mg/m³
 Application: employee (dermatitis)
 Potential health effect: Long exposure - systemic effects: 212 mg/kg of body weight/day
 Application: employee (dermatitis)
 Potential health effect: Short exposure - local effects: no information
 CAS No. 123-86-4: N-butyl acetate
 Application: employee (inhalation)
 Potential health effect: Long exposure - systemic effects: 48 mg/m³
 Application: employee (inhalation)
 Potential health effect: Short exposure - systemic and local effects: 600 mg/m³
 Application: employee (dermatitis)
 Potential health effect: Long exposure - systemic effects: 7 mg / kg of body weight / day
 Application: employee (dermatitis)
 Potential health effect: Short exposure: no information
 CAS No. 108-65-6: 1-methoxypropane-2-ol acetate
 Application: employees (inhalation)
 Potential health effect: Long exposure - systemic effects: 275 mg/m³
 Potential health effect: Short exposure - local effects: 550 mg/m³
 Application: employees (dermatitis)
 Potential health effect: Long exposure - systemic effects: 796 mg/kg of body weight/day
 Potential health effect: Short exposure - local effects: not revealed
 CAS No. 64742-95-6, 128601-23-0: hydrocarbons, C9, aromatic
 Application: employee (inhalation)
 Potential health effect: Long exposure - systemic effects: 150 mg/m³
 Application: employee (dermatitis)
 Potential health effect: Long exposure - systemic effects: 25 mg/kg
 Application: employee (dermatitis)
 Potential health effect: Short exposure - local effects: no information

PNEC values

CAS No. 1330-20-7: xylene
 freshwater: 0.327 mg/l
 marine water: 0.327 mg/l
 soil 2.31 mg/kg of soil dry weight
 CAS No. 123-86-4: N-butyl acetate
 freshwater: 0.18 mg/l
 marine water: 0.018 mg/l
 soil 0.09 mg/kg of soil dry weight
 CAS No. 108-65-6: 1-methoxypropane-2-ol acetate
 freshwater: 0.635 mg/l
 marine water: 0.064 mg/l
 soil 0.29 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, do not 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 product-impregnated dusters / cleaning rags at the pockets of trousers.
- Respiratory Protection:
 If the workplaces are well-ventilated, then 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
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Color	Colorless or slightly yellowish
Odor	Natural to organic solvents
pH	Not specified
Boiling point	Not specified
Flash point (closed cup)	Plus 24°C (dimethyl benzene) Plus 29°C (butyl acetate) Plus 45°C (1-methoxypropane-2-ol acetate) Plus 51°C (hydrocarbons, C9, aromatic)
Self-ignition temperature	Plus 494°C (dimethyl benzene) Plus 370°C (butyl acetate) Plus 315°C (1-methoxypropane-2-ol acetate) > Plus 400°C (hydrocarbons, C9, aromatic)
Density g/cm ³	0,99, not less than
Viscosity (relative, sec)	30, not less than
Lower explosion limit, % volume	1.0 (dimethylbenzene) 2.2 (butyl acetate) 1.5 (1-methoxypropane-2-ol acetate) 0.7 (hydrocarbons, C9, aromatic)
Upper explosion limit, % volume	6.0 (dimethylbenzene) 14.7 (butyl acetate) 7.0 (1-methoxypropane-2-ol acetate) 7.0 (hydrocarbons, C9, aromatic)
Vapor Density (Pa/20°C):	Not specified
Non-volatile matter mass fraction content %	41, not less than
Solubility in water	Insoluble

· 9.2 Other information: There is 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. 1330-20-7 xylene (isomer mixture)

Orally (by mouth) LD50 3523-4000 mg/kg bw (rat)

Dermally (dermal contact) LD50 12126 mg/kg bw (rabbit)

Inhalative (by breathing) LC50/4h 30097-31756 mg/m³ (rat)

CAS No. 123-86-4 N-butyl acetate

Orally (by mouth) LD50 10736-12760 mg/kg bw (rat)

Dermally (dermal contact) LD50 16 ml/kg bw (rabbit)

Inhalative (by breathing) LC50/4h 1087-1109 ppm (rat)

CAS No. 108-65-6: 1-methoxypropane-2-ol acetate

Orally (by mouth) LD50 5155-10000 mg/kg (rat)

Dermally (dermal contact) LD50 2000 mg/kg (rat)

CAS No. 64742-95-6, 128601-23-0 hydrocarbons, C9, aromatic

Orally (by mouth) LD50 4-8 ml/kg (rat)

Dermally (dermal contact) LD50 3160 mg/kg (rabbit)

· Primary irritant effect:

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

· on eyes: Irritating effect.

· Toxicity - from subacute to chronic: not related.

· Additional toxicological directions:

Based on the calculation method of EC General Classification Directive 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:
 - Sensitization: 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. 1330-20-7 xylene (isomer mixture)
 - EC50 (72h) 4.6 - 4.9 mg/l / for algae
 - NOEC /7 days 0.960 – 1.17 mg/l / for aquatic invertebrates
 - NOEC/21 days 1.57 mg/l / for aquatic invertebrates
 - LC50/96h 2.6 - 8.4 mg/l / for fish
 - NOEC/56 days 1.3 mg/l / for fish
 - CAS No. 123-86-4 N-butyl acetate
 - Er50/72h 246 - 674.7 mg/l / for algae
 - EC50/48h 32-44 mg/l / for aquatic invertebrates
 - EC50/21 days 43.5 mg/l / for aquatic invertebrates
 - LC50/96h 18 mg/l / for fish
 - CAS No. 108-65-6: 1-methoxypropane-2-ol acetate
 - EC50/72h 1000 mg/l / for algae
 - EC50/48h 500 mg/l / for aquatic invertebrates
 - LC50/96h 100 - 180 mg/l / for fish
 - CAS No. 64742-95-6, 128601-23-0 hydrocarbons, C9, aromatic
 - EC50/72h 0.290 - 0.420 mg/l / for algae
 - EL50/48h 3.2 - 9.586 mg/l / for aquatic invertebrates
 - LL50/96h 5.491-9.2 mg/l / for fish
- 12.2 Persistence and degradability:
 - There is no any respective information.
- 12.3 Bioaccumulative potential: There is no any respective information.
- 12.4 Mobility in soil: There is 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 is 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	1263	1263	1263
14.2	UN Shipping Name	PAINT		
14.3	Transport Classification	3	3	3
14.4	Packing Group	III	III	III
14.5	Environmental threat: · 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 standards, workplace safety rules and ecological regulations 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. Miscellaneous

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 Harmonised 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
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
STOT SE 3	Specific target organ toxicity, Hazard Category 3
Asp. Tox. 1	Aspiration Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic Category 2
Skin Sens. 1	Skin Sensitisation Category 1
GHS02	Hazard icon: flame
GHS07	Hazard icon: exclamation point
GHS08	Health hazard
GHS09	Environment
Wng	Warning
Dgr	Danger
H226:	Flammable liquid and vapour
H304:	May be fatal if swallowed and enters airways
H312:	Harmful in contact with skin
H315:	Causes skin irritation
H317:	May cause an allergic skin reaction
H332:	Harmful if inhaled
H335:	May cause respiratory irritation
H336:	May cause drowsiness or dizziness
H411:	Toxic to aquatic life with long lasting effects