

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : W-CRIL SEA 622 PVI BLACK COMPONENT A

Code : 13700277

Main recommended uses : Coating for industrial sector (hydrosoluble)

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2. HAZARD IDENTIFICATION

Mixture classification

Skin Corrosion/irritation : Category 2

Skin sensitization : Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 1B

Reproductive toxicity : Category 1B

Specific target organ toxicity - : Category 2
Single exposure

Specific target organ toxicity - : Category 3 (May cause respiratory irritation.)
Single exposure

Specific target organ toxicity - : Category 2
Repeated exposure

Aspiration hazard : Category 1

Hazardous to the aquatic : Category 3
environment - Acute

Classification according to NBR 14725-2/2009

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Labelling Elements



Warning phrase : Danger

Hazard phrases : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H371 May cause damage to organs.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H402 Harmful to aquatic life.

Caution Phrases :

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Reaction:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P308+P313 IF exposed or concerned: Call a doctor.

P331 Do not induce vomiting.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403+P233 Store in a well ventilated place. Keep container tightly closed.

Treatment and disposal of waste:

P501 Dispose of contents/container as chapter 13 of the MSDS.

Other hazard : Can cause allergic reactions on the skin.

3. COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS

Product type: : Mixture

Ingredients that contribute to danger:

Product name	CAS No.	Risk classification	Concentration [%]
SOLVENT ALKYLBENZENE	64742-95-6	Flammable liquids , Category 3 Aspiration hazard , Category 1 Specific target organ toxicity - Single exposure , Category 3 Skin Corrosion/irritation , Category 3 Germ cell mutagenicity , Category 2 Carcinogenicity , Category 1B Hazardous to the aquatic environment - Acute , Category 2 Acute toxicity Ingestion, Category 5 Specific target organ toxicity - Repeated exposure , Category 2 Aspiration hazard , Category 1	>= 20 - < 30
SOLVENT ACETATE BUTYL	123-86-4	Flammable liquids , Category 3 Specific target organ toxicity - Single exposure ,	>= 1 - < 5

		Category 3 Hazardous to the aquatic environment - Acute , Category 3	
SOLVENT BUTYL DIGLYCOL	112-34-5	Acute toxicity Ingestion, Category 4 Acute toxicity Dermal, Category 5 Acute toxicity - Inhalation Inhalation, Category 4 Serious eye damage/eye irritation , Category 2A Specific target organ toxicity - Single exposure , Category 2	$\geq 1 - < 5$
SOLVENT ISOBUTANOL	78-83-1	Flammable liquids , Category 3 Specific target organ toxicity - Single exposure , Category 3 Skin Corrosion/irritation , Category 2 Serious eye damage/eye irritation , Category 2A	$\geq 1 - < 5$
GLYCOL ETHYL ACETATE SOLVENT	111-15-9	Flammable liquids , Category 3 Reproductive toxicity , Category 1B Acute toxicity Ingestion, Category 4 Acute toxicity Dermal, Category 4 Acute toxicity Inhalation, Category 4	$\geq 1 - < 5$
RHEOLOGICAL ADDITIVE	71011-24-0	Skin sensitization , Category 1 Acute toxicity Inhalation, Category 5	$\geq 0,1 - < 1$

4. FIRST AID MEASURES

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Inhalation	: Take the victim to fresh air, keeping them rested and warm. If breathing is irregular or has stopped, apply artificial respiration. Do not give anything orally. Seek medical assistance immediately, bringing the product label whenever possible.
Contact with the skin	: Remove all contaminated clothing immediately. Rinse skin with water / take a shower.
Contact with the eyes	: Remove contact lenses, if wearing any. Flush the eyes with running water for at least 15 minutes, holding the eyelids apart. Seek medical assistance immediately, bringing the product label with you.
Ingestion	: Do not provoke vomiting. Consult with a doctor immediately.
Most important symptoms and effects, both acute and delayed	: Headaches, dizziness, fatigue and in extreme cases, loss of consciousness.
Notes for the doctor	: Treat symptomatically. Do not induce vomiting because of risk of aspiration of gastric contents into the lungs. Gastric lavage is recommended when the patient ingests large quantities, more than 5ml of the substance in its pure form. The toxic potential of the quantity consumed must be evaluated in relation to the risk of aspiration during gastric lavage. Activated coal in solution could be useful. However, in some cases the coal induces vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing methods	: Water in mist form Carbon dioxide (CO ₂) Foam alcohol resistant Dry chemical powder
Extinguishing methods not recommended	: Direct water jet.
Specific dangers	: The finely dispersed particles form explosive mixtures in air, in the presence of sparks. Burning forms a thick black smoke. Inhalation of dangerous products of decomposition may cause serious damage to health.
Protective measures of the fire fighting team.	: Use recommended personal protective equipment: face mask with OV filter and protective goggles.
Specific methods	: Evacuate and isolate the area. Approach from fire with wind at your back. Fight the fire to a secure distance. Remove the packaging of the product from the fire area if this can be made with safety. Chill sideways with water in form of fog all the closed packaging near the fire. Avoid that the resulting water from fire fighting reaches drains or waterways. Use dikes to contain this water and eliminate it according to environmental regulations.

6. SPILL / LEAK CONTROL PROCEDURES

Personal precautions, protective equipment and emergency procedures

For the emergency service staff : If specialized clothing is needed to combat the leak/spillage, Section 8 should be consulted. All precautions described in the previous section must be followed.

For staff who are not part of the emergency services : No action should be taken that may generate danger to people without adequate training and qualifications. Understand the dangers of leaked/spilled products. Use appropriate personal protective equipment - see section 8. Evacuate surrounding areas. Isolate area and keep onlookers away. Do not touch or walk through spilled material. Eliminate all sources of ignition. Avoid breathing vapor or mist. Provide adequate ventilation if possible. Wear appropriate respiratory mask when ventilation is inadequate. In accordance with characteristics of the location and/or area and in relation to the amount of spilled/leaked product, additional emergency measures may be taken under the supervision of a trained professional.

Environmental precautions : Prevent the product or the water used in the service reaches waterways, channels, drains, or galleries. In case of significant spill, retain spilled liquid with inert material such as sand or earth. In appropriate, use absorbent materials such as sawdust, rags, vermiculites, etc.

Methods and materials for containment and cleaning

Large spills / leaks : Understand the dangers of leaked/spilled products. Approaching the site with the wind from behind. Stop leak if this can be done safely. Prevent from entering holes / depressions in the floor. If this happens to provide ventilation. Confine the spill in a dike away from the leak point for later disposal. Remove local packaging from the spills site. Use anti-sparking tools and explosion-proof equipment to collect the product. All equipment used when handling the product must be electrically grounded. Soak up with an inert dry material (sand, vermiculite) placing the same in a suitable container for later disposal - see chapter 13.

Small spills / leaks : Stop the leak if this can be done safely. Prevent from entering holes / depressions in the floor. Cover up spillage in a tarp to prevent the spread by wind or rain. Use anti-sparking tools and explosion-proof equipment properly grounded to collect the product. Place the material collected in dry, clean and properly identified containers. Cap the container loosened so

removing them from the spill site. Avoid formation of dust. Remove the packaging from the spill site. If there is product disposal need refer to chapter 13

Contain and collect the material of the leak with absorbent materials and non-combustible, such as sand, earth, vermiculite, calcined diatomite, etc. in a waste container in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

- Instructions for safe treatment** : Use individual protective equipment. Emergency showers and eye wash basins must be installed in locations of use and storage.
- Precautions for safe handling** : Avoid contact with eyes, skin and clothes. Do not re-use packaging. Do not eat, drink or smoke during use. Do not handle the product before reading and understanding all safety precautions.
- Fire protection** : Only use in well-ventilated locations, to prevent accumulation of vapors in explosive concentrations. All conductive elements of the system, in contact with the product, must be electrically grounded. Keep away from heat and sources of ignition. Tools that do not produce sparks should be used. Do not smoke.

Storage conditions

- Substances to be avoid** : Keep away from oxidising agents, strong acid solutions and strong alkaline solutions.
- Storage conditions** : The electrical installation must comply with NEC (National Electrical Code) or IEC (International Electrical Commission) standards and/or those of the ABNT (Brazilian Association of Technical Standards). The floor of the storage area must be impermeable, non-combustible and must have ditches that allow run off into the containment reservoir. Storage tanks must be surrounded by embankments and have drains in case of leakage.
- Appropriate storage conditions** : Store the material in covered, dry, well ventilated and identified areas. Keep out of direct sunlight. Store in a closed container.
- Inappropriate storage conditions** : Exposed to elevated temperatures, sun and rain. Close to oxidizing agents. Close to food. Close to sources of heat and ignition.
- Materials to avoid** : Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.

Secure packaging materials

Recommended packaging materials : Coated metal packaging
Plastic packaging

Packaging materials to be avoided : Uncoated metal packaging

8. EXPOSURE CONTROL – PERSONAL PROTECTION

The information in this chapter contain general guidelines. Chapter 1 should be consulted for any information on the recommended use of this product in different scenarios of exposure.

Engineering control measures : Preferably use the product in adequate application cabin. In case it is not possible, provide exhaustion/ventilation enough to keep the concentration of the agents indicated in this section under the limits of tolerance (L.T.), otherwise, use adequate respiratory protection equipment. The engineering controls should keep the concentrations of gas/vapour under the limit of LEL - Lower Explosive Limit (see section 9). Use equipment explosion proof.

Control parameters**Occupational Exposure Limits**

Name	CAS No.	TLV/TWA	TLV/STEL	TLV/TETO	Source
SOLVENT ALKYL BENZENE	64742-95-6	50 ppm			ACGIH
SOLVENT ACETATE BUTYL	123-86-4	150 ppm			ACGIH
SOLVENT BUTYL DIGLYCOL	112-34-5	7 ppm			ACGIH
SOLVENT ISOBUTANOL	78-83-1	50 ppm			ACGIH
GLYCOL ETHYL ACETATE SOLVENT	111-15-9	5 ppm			ACGIH
RHEOLOGICAL ADDITIVE	71011-24-0	10 mg/m ³			ACGIH

*PPM - parts of vapour or gas per million of parts of contaminated air

**MG/m³ - miligrams per cubic meter of air.

Personal protective equipment required

Respiratory protection : In case of the concentrations are above the indicated

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tolerance limits, the use of appropriated mask is necessary for this goal (half-face mask or full face mask with filter to organic vapors and acid gases).

- Hand protection** : In case of prolonged or repeated contact, use nitrile gloves.
- Eye protection** : Use hermetic goggles to protect against liquid splashes.
- Body and skin protection** : It is recommended the use of apron barber type to protecting upper limbs, trunk and lower limbs in case of splash. In case of risk of static electricity generation the cloth should be antistatic, includin the apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : Liquid
- State of matter** : Liquid
- Color** : Black
- Odour** : Distinctive
- Odour limit** : Not applicable
- pH** : 9,0 - 9,5
- Melting point** : Data not available.
- Boiling point** : Data not available.
- Flash Point (Open cup)** : > 97 °C Not flammable
- Evaporation rate** : Data not available.
- Inflammation point** : Method: Data not available.
- Upper explosive limit** : Data not available.
- Lower explosive limit** : Data not available.
- Vapor pressure** : Data not available.
- Density** : 1,11 - 1,17 g/cm³
- Solubility(ies)** : Soluble in water
- N-octano /water partition coefficient** : Data not available.
- Auto flammability** : Data not available.
- Cinematic viscosity (25°C)** : 90 - 100 s CF4

Vapor density : Data not available.

10. STABILITY AND REACTIVITY

Reactivity : Presents no reactivity at room temperature and under normal conditions of use.

Chemical stability : Stable at room temperature and under normal conditions of use. Unstable at temperatures above the flash point.

Possibility of dangerous reactions : Presents no reactivity at room temperature and under normal conditions of use.
None when the product is stored, applied and processed correctly.

Need to add additives and inhibitors : Not necessary.

Conditions to avoid : Extreme heat and open flame.

Incompatible materials : Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.

Dangerous products of decomposition : Produces noxious gases such as carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Components

SOLVENT ALKYL BENZENE

Acute toxicity by oral use	: Test species DL50 Observations	Rat 2.908,7 mg/kg
Acute toxicity by inhalation	: Test species DL50 Observations	Rat Data not available.
Acute toxicity by cutaneous use	: Test species DL50 Observations	Rabbit Data not available.
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.

Corrosion/irritation of skin	: Category 3
Serious eye damage/eye irritation	: Data not available.
Respiratory or dermal sensitivity	: Data not available.
Mutageneses	: Chemicals considered to induce heritable mutations in human germ cells
Carcinogenicity	: Presumed to have carcinogenic potential for humans.
Toxic effects for reproduction	: Suspected of causing reproductive toxicity or human development
Specific target organ toxicity (STOT) - single exposure	: Passengers effects on organ target . These are effects that alter human function for a short period of exposure
Specific target organ toxicity (STOT) - repeat exposure	: Substance based on evidence from studies in experimental animals can probably present a potential to be harmful to human health on repeated exposure

SOLVENT ACETATE BUTYL

Acute toxicity by oral use	: Test species DL50 Observations	14.000 mg/kg
Acute toxicity by inhalation	: Test species DL50 Observations	Rat 2.000 mg/l
Acute toxicity by cutaneous use	: Test species DL50 Observations	14.080 mg/kg
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Data not available.	
Serious eye damage/eye irritation	: Data not available.	
Respiratory or dermal sensitivity	: Data not available.	
Mutageneses	: Data not available.	
Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: Data not available.	

Specific target organ toxicity (STOT) - single exposure : Passengers effects on organ target . These are effects that alter human function for a short period of exposure

Specific target organ toxicity (STOT) - repeat exposure : Data not available.

SOLVENT BUTYL DIGLYCOL

Acute toxicity by oral use : Test species Rat
DL50 3.384 mg/kg
Observations

Acute toxicity by inhalation : Test species Rat
DL50
Observations Data not available.

Acute toxicity by cutaneous use : Test species Rabbit
DL50 2.700 mg/kg
Observations

Acute toxicity (other methods of administration) : Test species Data not available.
DL50
LC50
Non-standard unit value

Corrosion/irritation of skin : Data not available.

Serious eye damage/eye irritation : Category 2A

Respiratory or dermal sensitivity : Data not available.

Mutageneses : Data not available.

Carcinogenicity : Data not available.

Toxic effects for reproduction : Data not available.

Specific target organ toxicity (STOT) - single exposure : Substance based on evidence from animal experiments , it can be estimated with the potential to produce harmful effects to human health after single exposure

Specific target organ toxicity (STOT) - repeat exposure : Data not available.

SOLVENT ISOBUTANOL

Acute toxicity by oral use : Test species Rat
DL50 2.460 mg/kg
Observations

Acute toxicity by inhalation : Test species
DL50
Observations Data not available.

Acute toxicity by cutaneous use : Test species Rabbit
DL50 3.400 mg/kg

	Observations	
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Category 2	
Serious eye damage/eye irritation	: Category 2A	
Respiratory or dermal sensitivity	: Data not available.	
Mutageneses	: Data not available.	
Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: Data not available.	
Specific target organ toxicity (STOT) - single exposure	: Passengers effects on organ target . These are effects that alter human function for a short period of exposure	
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.	

GLYCOL ETHYL ACETATE SOLVENT

Acute toxicity by oral use	: Test species DL50 Observations	Rat 2.700 mg/kg
Acute toxicity by inhalation	: Test species DL50 Observations	Data not available.
Acute toxicity by cutaneous use	: Test species DL50 Observations	Rabbit 10.200 mg/kg
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Data not available.	
Serious eye damage/eye irritation	: Data not available.	
Respiratory or dermal sensitivity	: Data not available.	
Mutageneses	: Data not available.	

Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: That is assumed that produces an adverse effect on the fitness or reproductive capacity or the development of human beings	
Specific target organ toxicity (STOT) - single exposure	: Data not available.	
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.	
RHEOLOGICAL ADDITIVE		
Acute toxicity by oral use	: Test species DL50 Observations	Data not available.
Acute toxicity by inhalation	: Test species DL50 Observations	Data not available.
Acute toxicity by cutaneous use	: Test species DL50 Observations	Data not available.
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Data not available.	
Serious eye damage/eye irritation	: Data not available.	
Respiratory or dermal sensitivity	: Category 1	
Mutageneses	: Data not available.	
Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: Data not available.	
Specific target organ toxicity (STOT) - single exposure	: Data not available.	
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.	

Not classified in terms of toxicity based on the data available.

12. ECOLOGICAL INFORMATION

Stability in soil	: The product easily infiltrates into the soil
Elimination of chemical physical ability	: Not considered potentially bioaccumulative.
Other toxicological observations	: Not applicable
Ecotoxicity	: There are not expected adverse effects to the environment. Product not classified as hazardous to the aquatic environment according to the criteria of NBR 14725/2010 part II.

13. DIOSPOSAL AND TREATMENT CONSIDERATIONS

Recommended methods for final disposal

Product	: Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
Waste	: Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
Used packaging	: Clean packaging should be sent for recycling. Packaging with class I waste should be disposed of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations.

14. TRANSPORTATION INFORMATION

National and international regulations

Land	: Not classified as a dangerous good under transport regulations.
Shipping	: Not classified as a dangerous good under transport regulations.
Air transport	: Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

This MSDS (Material Safety Data Sheet) was generated according to the criteria of NBR 14725 (Brazilian standard that defines the GHS).

Specific Regulations for the Chemical Product.	Federal Decree No. 2657, July 3rd , 1998. Law No. 12305, August 2nd 2010 (Solid Waste National Policy). Decree No. 7404, December 23rd , 2010. Ordinance No. 229, May 24th, 2011 - Changes to Regulatory Standard No. 26. ABNT NBR 14725: 2014.
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16. ADDITIONAL INFORMATION

Acronyms Used:

Legenda:

CAS	Chemical Abstract Service
VO	Organic Vapors
NEC	National Eletrical code/Código Nacional de Eletricidade
IEC:	International Eletrical Commision
ABNT	Brazilian Association of Technical Standards
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Values
TLV/TWA	Time Weighted Average
TLV/STEL	Short Term Exposure Limit
TLC/C:	Tolerance Limit - Ceiling Value
EPI:	Individual Protective Equipment
CA	Approval Certificate
PPRA	Environmental Risk Prevention Program
NR	Regulatory Standard
NFPA	National Fire Protection Agency
mmHg	Millimeters of mercury - pressure unit
DL50	Lethal Dose average
CL50	Lethal Concentration average

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Product name W-CRIL SEA 622 PVI BLACK COMPONENT A Code 13700277



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ppm	Parts per million
N.d	Not available
A+B	Viscosity of the mixture of component A + component B

Important information, but not specifically described in the previous sections:

This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical.

We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

Vertical lines in the left hand margin indicate changes from the current version

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