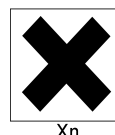


Safety Data Sheet

GREEN SYSTEM 2 K WASH PRIMER



Safety Data Sheet dated 23/5/2008, version 5

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: GREEN SYSTEM 2 K WASH PRIMER

Trade code: F99

Product type and use: Wash Primer

Company:

Ind. Chimica Reggiana spa Via Gasparini, 7 42100 REGGIO EMILIA Italia Tel. +39
0522517803 Fax +39 0522514384

Emergency telephone number of the company and/or of an authorised advisory centre:
Centro Antiveleni - Policlinico Umberto I, Roma - Tel. 06-49978000

Competent person responsible for the safety data sheet: sdspg@icrsprint.it

2. HAZARDS IDENTIFICATION

The product easily catches fire if it is exposed to an ignition source.

If brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema.

This product is harmful: serious harm (functional disorders or significant morphological changes that are toxicology-related) may be caused by repeated or prolonged exposure to the product by inhalation.

This product is harmful - it is suspected that it can be injurious to the foetus.

Repeated exposure to the product may cause skin dryness or cracking.

Vapours of the product may cause drowsiness and dizziness.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

12.5% - 15% n-butyl acetate

N.67/548/CEE: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1

R10-66-67; substance with a Community workplace exposure limit

12.5% - 15% toluene

N.67/548/CEE: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9

F, Repr. Cat. 3, Xn, Xi; R11-38-48/20-63-65-67

7% - 10% Trizinc bis(orthophosphate)

CAS: 7779-90-0 EC: 231-944-3

N; R50-53

7% - 10% 2-methylpropan-1-ol

N.67/548/CEE: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0

Xi; R10-37/38-41-67

5% - 7% ethanol

N.67/548/CEE: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6

F; R11; substance with a Community workplace exposure limit

5% - 7% 4-methylpentan-2-one

N.67/548/CEE: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1

F, Xn, Xi; R11-20-36/37-66

5% - 7% propan-2-ol

N.67/548/CEE: 603-003-00-0 CAS: 67-63-0 EC: 200-661-7

F, Xi; R11-36-67

1% - 3% acetone

N.67/548/CEE: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2



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F,Xi; R11-36-66-67

1% - 3% isobutyl acetate [2]

N.67/548/CEE: 607-026-00-7 CAS: 110-19-0 EC: 203-745-1

F; R11-66; substance with a Community workplace exposure limit

0.5% - 1% butan-1-ol

N.67/548/CEE: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6

Xn,Xi; R10-22-37/38-41-67

0.5% - 1% 2-methoxy-1-methylethyl acetate

N.67/548/CEE: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9

Xi; R10-36

0.25% - 0.5% zinc oxide

N.67/548/CEE: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5

N; R50-53

0.25% - 0.5% xylene, mixture of isomers (flashpoint \geq 21°C)

N.67/548/CEE: 601-022-01-6 CAS: 1330-20-7 EC: 215-535-7

Xn,Xi; R10-20/21-38

0.25% - 0.5% carbolic acid

N.67/548/CEE: 604-001-00-2 CAS: 108-95-2 EC: 203-632-7

Muta. Cat. 3,T,Xn,C; R23/24/25-34-48/20/21/22-68

0.1% - 0.25% butanone

N.67/548/CEE: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0

F,Xi; R11-36-66-67

350 mg/kg formaldehyde ...%

N.67/548/CEE: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8

Carc. Cat. 3,T,Xi,C; R23/24/25-34-40-43

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Wash immediately with water for at least 10 minutes.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

CO₂ or Dry chemical fire extinguisher.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

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Avoid inhaling the fumes.
 Protective equipment:
 Use protection for the respiratory tract.
 Cool the containers exposed to the fire with water.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:
 Use a mask, gloves and protective clothing.
 Environmental measures:
 Limit leakages with earth or sand.
 Eliminate all unguarded flames and possible sources of ignition. Do not smoke.
 If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.
 Cleaning methods:
 Rapidly recover the product. To do so, wear a mask and protective clothing.
 If the product is in a liquid form, stop it from entering the drainage system.
 Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

7. HANDLING AND STORAGE

Handling precautions:
 Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.
 Do not eat or drink while working.
 Do not smoke while working.
 Incompatible materials:
 None in particular.
 Storage conditions:
 Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 Instructions as regards storage premises:
 Cool and adequately ventilated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:
 Give adequate ventilation to the premises where the product is stored and/or handled.
 Respiratory protection:
 Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).
 Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).
 Protection for hands:
 Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
 Eye protection:
 Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).
 Protection for skin:
 Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
 Exposure limit(s) (ACGIH):

Name	TLV - TWA	TLV - STEL
n-butyl acetate	100 ppm	150 ppm
toluene	100 ppm	150 ppm
2-methylpropan-1-ol	50 ppm, 152 mg/m ³	
ethanol	1880 mg/m ³ , 1000 ppm	
4-methylpentan-2-one	50 ppm	75 ppm, 307mg/m ³
acetone	1000 ppm	750 ppm
isobutyl acetate [2]	150 ppm	
butan-1-ol	152 mg/m ³ , 50 ppm	
2-methoxy-1-methylethyl acetate	100 ppm, 369mg/m ³	150ppm, 553mg/m ³

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xylene, mixture of isomers (flashpoint $\geq 21^{\circ}\text{C}$) butanone formaldehyde ...%	100 ppm 200 ppm 1 ppm	150 ppm 300 ppm 3 mg/m ³
9. PHYSICAL AND CHEMICAL PROPERTIES Appearance and colour: Liquid, Yellow ocra chiaro Odour: Typical Flash point: $0^{\circ}\text{C} \leq \text{fp} < 21^{\circ}\text{C}$ Relative density: $1,13 \pm 0,05 \text{ g/cm}^3$		
10. STABILITY AND REACTIVITY Conditions to avoid: Stable under normal conditions. Substances to avoid: Avoid contact with combustible materials. The product could catch fire. Hazardous decomposition products: None.		
11. TOXICOLOGICAL INFORMATION The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation. Set out below is the toxicological information relating to the main substances in the preparation. n-butyl acetate OBSERVATIONS ON HUMAN SUBJECTS: Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose. Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose. Inhaling the vapours can irritate the respiratory system. The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation. Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min. TCLo: 200 ppm toluene OBSERVATIONS ON HUMAN SUBJECTS - NON-PROFESSIONAL EXPOSURE Effects following acute exposure: At 200 ppm: mild but definite decrease in co-ordination and in reaction time, fatigue, confusion, paraesthesia of the skin; the fatigue lasted over a number of hours together with mild insomnia. At 400 ppm: worsening of symptoms and mental confusion. acetone OBSERVATIONS ON HUMAN SUBJECTS: Acetone's routes of entry to the body are skin absorption, swallowing and, especially, inhalation. It is eliminated through the lungs (40-70%), in urine (15-30%), and through the skin (10%). Tests carried out with C14 have demonstrated that acetone takes part as an intermediary in the metabolism of lipids and indirectly in the glycidol cycle. Trials on human subjects have demonstrated that it is impossible to inhale concentrations of 22 mg/l (9300 ppm) for more than 5 minutes owing to throat irritation. Subjects exposed to 500 ppm of acetone have displayed irritation to the eyes, throat, and nose. Concentrations > 300 ppm cause: slight irritation to the mucous membranes. Concentrations = 800 ppm (30') cause: malaise. DL (oral, estimated) = 50 ml		
12. ECOLOGICAL INFORMATION Adopt good working practices, so that the product is not released into the environment. List of substances dangerous for the environment and corresponding classification:		

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7% - 10% Trizinc bis(orthophosphate)
CAS: 7779-90-0 EC: 231-944-3
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

0.25% - 0.5% zinc oxide
N.67/548/CEE: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

The waste of non-polymerized material must be considered as "Toxic and Harmful" waste, because the presence of organic solvents is higher than what allowed by European laws.
The empty containers must be considered special waste materials(Art. 5 D.P.R. 915/82) to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

ADR-UN number: 1263
Shipping name: Paints
ADR Packing Group: II
ADR Classification Code: F1
Limited quantities, not subject to ADR norms:- Combined packaging: for internal packaging of up to 5 liters and packs of up to 20 liters- Internal packaging on trays with heat-shrink wrapping or stretched wrapping: for internal packaging of up to 1 liter and packs of up to 20 liter
Limited quantities, not subject to ADR norms:- Combined packaging: for internal packaging of up to 5 liters and packs of up to 45 liters- Internal packaging on trays and with heat-shrink wrapping or stretched wrapping: for internal packaging of up to 5 liters and packs of up to 20 kg

IMDG-Class: 3.2
IMDG-Un number: 1263
Shipping name: Paints
IMDG-Label: 3
IMDG-Packing group: II
IMDG-EMS: F-E, S-E
IMDG-MFAG: 310

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

Xn Harmful
F Highly flammable

R Phrases:

R11 Highly flammable.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

S Phrases:

S23 Do not breathe spray
S36/37 Wear suitable protective clothing and gloves.
S51 Use only in well-ventilated areas.

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Contents:
toluene

Volatile Organic compounds - VOCs = 635.66 g/l
Volatile CMR substances = 0.00 g/Kg
Halogenated VOCs which are assigned the risk phrase R40 = 0.35 g/Kg
Organic Carbon - C = 0.37

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
1999/13/EC (VOC directive)

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R36/37 Irritating to eyes and respiratory system.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.

Paragraphs modified from the previous revision:

2. HAZARDS IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
ACGIH - Threshold Limit Values - 2004 edition

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The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.