LGAI TECHNOLOGICAL CENTER, S.A.

Campus UAB

Crta. de Acceso a la Universidad de Medicina, s/n
08193 Bellaterra (Barcelona)

Tlf.: 93 5672000 Fax: 93 5672001



Page 1 of 4

REPORT No: 928/10/1879

Nº. OF RECORD: 6410

TEST REPORT ISSUED BY LGAI TECHNOLOGICAL CENTER, S.A.

CUSTOMER IDENTIFICATION DATA:

NAME: KRYPTON CHEMICAL, S.L.

CENTER:

ADDRESS: P.I.LES TAPIES, C/MARTI FRANQUES 12

CITY: HOSPITALET DE L'INFANT

PROVINCE: 43890 TARRAGONA

COUNTRY: ESPAÑA

SAMPLE IDENTIFICATION DATA:

PRODUCT: HOT PROJECTED POLYUREA

SUPPLIER:

BRAND:

BATCH:

CATEGORY:

REMARKS: SENT BY CUSTOMER

PACKING DATE:

EXP. DATE:
PRODUCT Ta T.M.:

YOUR/REFERENCE:

SAMPLE TAKING DATE:

RECEPTION DATE: 24/03/10

BAR CODE

SECTION:

PHYSICO-CHEMICAL ANALYSIS

Start 24/03/10 End 24/03/10

Characteristics of materials

| Parameter | Results | Legislative Norm |
|--|-----------|------------------|
| 1 Migration of materials in contact witth drinking water | Completed | |

Control of content

| Parameter | | Results | Legislative Norm |
|------------------------------|-----------|---------|------------------|
| 2 Turbidity | (UNF) | 0.6 | <=5 |
| 3 Ammonia | (mg/l) | < 0.5 | <=0.5 |
| 4 Total Organic Carbon (TOC) | (mg/l) | 24.2 | No changes |
| 5 Cyanides | (µg/l) | < 5.0 | <=50 |
| 6 Combined residual chlorine | (mg/l) | < 0.5 | <=2 |
| 7 Residual free chlorine | (mg/l) | < 0.5 | <=1 |
| 8 pH | (upH) | 6.6 | >=6.5 <=9.5 |
| 9 Nitrites | (mg/l) | < 0.5 | <=0.5 |
| 10 Oxidizability | (mg O2/I) | 1.0 | <=5 |
| 11 Sodium | (mg/l) | 1.6 | <=200 |
| 12 Chlorides | (mg/l) | 3.0 | <=250 |
| 13 Fluorides | (mg/l) | < 0.1 | <=1.5 |
| 14 Nitrates | (mg/l) | < 0.5 | <=50 |
| 15 Sulphates | (mg/l) | <1.0 | <=250 |
| 16 Aluminium (AI) | (µg/l) | 4.0 | <=200 |
| 17 Antimony (Sb) | (µg/l) | <2.0 | <=5 |
| 18 Arsenic (As) | (µg/l) | <2.0 | <=10 |
| 19 Boron (B) | (mg/l) | < 0.1 | <=1 |

LGAI TECHNOLOGICAL CENTER, S.A.

Campus UAB

Crta. de Acceso a la Universidad de Medicina, s/n
08193 Bellaterra (Barcelona)

Tlf.: 93 5672000 Fax: 93 5672001



Page 2 of 4

REPORT No: 928/10/1879

TEST REPORT ISSUED BY LGAI TECHNOLOGICAL CENTER, S.A.

| 20 | Cadmium (Cd) | (µg/l) | <1.0 | <=5 | |
|----|---|--------|--------|--------|--|
| 21 | Copper (Cu) | (mg/l) | <0.1 | <=2 | |
| - | Chromium (Cr) | (mg/l) | <2.0 | <=50 | |
| 23 | Iron (Fe) | (µg/l) | <10.0 | <=200 | |
| 24 | Manganese (Mn) | (µg/l) | <2.0 | <=50 | |
| 25 | Mercury (Hg) | (µg/l) | <0.2 | <=1 | |
| 26 | Nickel (Ni) | (µg/l) | <2.0 | <=20 | |
| 27 | Lead (Pb) | (µg/l) | <2.0 | <=25 | |
| 28 | Selenium (Se) | (µg/l) | <2.0 | <=10 | |
| 29 | Volatile organic compounds | | | | |
| | 1,2 Dichloroethane | (µg/l) | < 0.5 | <=3 | |
| | Trichloroethane + Tetrachloroethane | (µg/l) | <1.0 | <=10 | |
| 30 | Trihalomethanes | (µg/l) | 6.0 | <=100 | |
| 31 | Benzene | (µg/l) | <0.5 | <=1 | |
| 32 | Polycyclic Aromatic Hydrocarbons | | | | |
| | Benzopyrene | (µg/l) | < 0.01 | <=0.01 | |
| | Sum of Polycyclic Aromatic Hydrocarbons | (µg/l) | <0.1 | <=0.1 | |
| 33 | 3 Pesticides | | | | |
| | Aldrin | (µg/l) | < 0.01 | <=0.03 | |
| | Dieldrin | (µg/l) | < 0.01 | <=0.03 | |
| | Heptachlorine | (µg/l) | < 0.01 | <=0.03 | |
| | Heptachlorine epoxide | (µg/l) | < 0.01 | <=0.03 | |
| | Individual pesticide | (µg/l) | < 0.01 | | |
| | Total pesticides | (µg/l) | <0.50 | <=0.5 | |
| 34 | Acrylamide | | | <=0.1 | |
| | First migration | (µg/l) | <0.1 | <=0.1 | |
| 35 | Epiclorhidrine | (µg/l) | <1.0 | <0.1 | |

Product Features

| | Parameter | | Results | Legislative Norm | |
|----|-----------------------------|------------|------------|------------------|--|
| 36 | Conductivity | (µS/cm) | <20.0 | <=2500 | |
| 37 | Flavour: Dilution rate | | 1 | <=3 | |
| 38 | Colour | (mg/Pt/Co) | <1.0 | <=15 | |
| 39 | Odour: Dilution rate | | 1 | <=3 | |
| 40 | Reaction at 20 ppm chlorine | | No changes | No Changes | |

LGAI TECHNOLOGICAL CENTER, S.A.

Campus UAB

Crta. de Acceso a la Universidad de Medicina, s/n

08193 Bellaterra (Barcelona)

Tlf.: 93 5672000 Fax: 93 5672001



Page 3 of 4

REPORT No: 928/10/1879

TEST REPORT ISSUED BY LGAI TECHNOLOGICAL CENTER, S.A.

PHYSICO-CHEMISTRY DEPARTMENT:

Note: N. D. = Not Detected. The detection limit for the technique used is 1µg/l

According to Annex I of Royal Decree 140/2003, the maximum limit set for Epichlorohydrin is $0.1\mu g/l$. Mass Gas Chromatography is the technique used to determine this parameter. Even with the best possible optimization, this technique does not enable reaching a detection limit lower than $1 \mu g/l$.

The parameter determination, except for the migration at the reaction at 20 ppm of chlorine, has been carried out at a collaborating Laboratory, under record number 702791.

Migration for polymeric materials:

- -Extraction means: Chlorinated water containing 1 ppm chlorine.
- -Migration Temperature: 40°C.
- -Contact time: The sample is washed several times, as instructed in Standard EN-12873.

Next, three 72-hour cycles are performed, thereby obtaining three testing samples.

Parameters are analysed during the initial 72-hour cycle; only the parameters that are beyond the limits of RD 140/2003 in the first cycle are repeated in the second and third cycle.

- -Volume of the sample: 1 litre for each of the 72-hour cycles.
- -Contact surface: 500 cm2.
- -Surface/volume ratio: 500 cm2/l.

CONCLUSION

The material is consistent, with the parameters analyzed, with the requirements of the Royal Decree 140/2003. Although no epichlorohydrin has been detected, it should be mentioned that its detection limit is higher than the one stated, since the technique used does not allow reaching a detection limit lower than 1 μ g/l.

No chemical reaction product observed at 20 ppm of chlorine, the product complies with respect to this parameter with the requirements of Royal Decree 140/2003

This analysis report may not be reproduced in part or entirely without written permission from the laboratory.

English translation of the original in Spanish 928/09/8505

METHODOLOGY USED

| | | | MEIHODOLOGY | USED |
|---|----|-----------------|-------------|-----------------|
| | 1 | EN 12873 | Q 2 | Internal metho |
| | 3 | Internal method | Q 4 | Internal metho |
| | 5 | Internal method | Q 6 | Internal metho |
| | 7 | Internal method | Q 8 | Internal metho |
| | 9 | Internal method | Q 10 | Internal metho |
| | 11 | Internal method | · Q 12 | Internal metho |
| | 13 | Internal method | Q 14 | Internal metho |
| | 15 | Internal method | Q 16 | Internal metho |
| | 17 | Internal method | Q 18 | Internal metho |
| | 19 | Internal method | Q 20 | Internal metho |
| | 21 | Internal method | Q 22 | Internal metho |
| | 23 | Internal method | Q 24 | Internal metho |
| | 25 | Internal method | Q 26 | Internal metho |
| | 27 | Internal method | Q 28 | Internal metho |
|) | 29 | Internal method | Q 30 | Internal metho |
|) | 31 | Internal method | Q 32 | Internal metho |
|) | 33 | Internal method | Q 34 | Internal metho |
|) | 35 | Internal method | Q 36 | Internal method |
|) | 37 | Internal method | Q 38 | Internal meth |
| | 39 | Internal method | Q 40 | Internal meth |
| | | | | |

LGAI TECHNOLOGICAL CENTER, S.A.

Campus UAB

Crta. de Acceso a la Universidad de Medicina, s/n
08193 Bellaterra (Barcelona)

Tlf.: 93 5672000 Fax: 93 5672001



Page 4 of 4

REPORT No: 928/10/1879

TEST REPORT ISSUED BY LGAI TECHNOLOGICAL CENTER, S.A.

Department Manager Inorganic Chemistry
Isabel Garmendia Arnau
Bellaterra, 25th of March of 2010

Service Quality Guarantee

Applus+guarantees that this task has been carried out in compliance with the requirements of our Quality and Sustainability System, and furthermore, that the contractual terms and legal regulations have been complied with.

In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+ at the following address: satisfaccion.cliente@appluscorp.com