



**Safety Data Sheet**  
**X-Treme Glass Cleaner (Concentrate)**  
SDS Version Date: 03/16/2015

**1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**PAK-IT X- Treme Glass Cleaner (Concentrate)**

**Contains:**

- Undecan-1-ol, ethoxylated.
- Tetrahydrofurfuryl alcohol.

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

Professional use only: Surface cleaner.

Product is contained in a water soluble sachet and is added to water and diluted before use.

**1.3. Details of the supplier of the safety data sheet**

<b>Company Name</b>	Big 3 Packaging, LLC 4201 Torresdale Avenue Philadelphia, PA 19124
<b>Emergency</b>	
<b>CHEMTREC (USA)</b>	(800) 424-9300
<b>24 hour Emergency Telephone No.</b>	800-535-5053
<b>Customer Service: Big 3 Packaging, LLC</b>	215-743-4201

**2: Hazards identification**

The hazard classification and label elements reflect the intrinsic properties of the concentrate product as supplied, which is sealed in a water soluble sachet. The sachet when intact provides a barrier to dermal and inhalation exposure under conditions of normal handling and use. The precautionary statements are applicable under conditions of potential exposure to the concentrate itself.

## 2.1 Classification of the substance or mixture

### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute toxicity Category 4; H302.  
 Skin irritant Category 2; H315.  
 Eye damage Category 1; H318.  
 Reproductive toxicity Category 1B: H360Df.

### 2.1.2 Classification according to Directive 1999/45/EC




Harmful; R22.  
 Irritant; R38, R41.  
 Toxic; R61, R62.

### 2.1.3 Additional information

For full text of R-phrases and Hazard- and EU Hazard- statements: See SECTION 16

## 2.2 Label elements

### 2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP) (as amended)

Pictograms			
Signal Word	<b>Danger</b>		
Hazard Statements	H302	Harmful if swallowed.	
	H315	Causes skin irritation.	
	H318	Causes serious eye damage.	
	H360Df	May damage fertility or the unborn child.	
Precautionary Statements	P201	Obtain special instructions before use.	
	P202	Do not handle until all safety precautions have been read and understood.	
	P270	Do not eat, drink or smoke when using this product.	
	P280	Wear protective gloves/eye protection.	
	P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.	
	P330	Rinse mouth.	
	P302 + P352	IF ON SKIN: Wash with plenty of soap and	



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		water.
	P304 + P340	<b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305 +P351 +P338	<b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a <b>POISON CENTRE</b> or doctor/physician.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with local/national regulation.
		Restricted to professional users.

### 2.2.2 Labelling according to Directive 1999/45/EC

See Section 16.

### 2.3 Other hazards

Contains Hydrocarbons, terpene processing by-products. May produce an allergic reaction.

This mixture does not contain any substances that are assessed to be PBT or vPvB.

## 3: *Composition/information on ingredients*

### 3.2 Mixtures

#### Description of the mixture:

Mixture containing non-ionic surfactant, alcohols, glycols, fragrances, colorant.

#### Hazardous ingredients:

CAS No.	EC No.	Index No.	REACH Registration No.	% (weight)	Name	Classification according to Regulation (EC) No. 1278/2008 (CLP)	Classification according to 67/548/EEC
34398-01-1	500-084-3	N/A	-	40-50	Undecan-1-ol, ethoxylated	Acute Tox., 4: H302. Eye Damage 1: H318	Xn; R22. Xi; R41



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97-99-4	202-625-6	603-061-00-7	-	15-25	Tetrahydrofurfuryl Alcohol	Repr. 1B: H360Df. Eye Irrit., 2: H319.	T: R61. Xn: R62. Xi: R36  (SCL: Xi: R36≥10%).
107-41-5	203-489-0	N/A	-	5-10	2-methylpentane-2,4-diol (Hexylene glycol)	Skin Irrit. 2: H315. Eye Irrit. 2: H319.	Xi: R36/38. (SCL ≥10%).
18479-58-8	242-362-4	N/A	-	1-5	2,6-dimethyloct-7-en-2-ol	Skin Irrit. 2: H315. Eye Irrit. 2: H319.	Xi: R38.
68956-56-9	273-309-3	N/A	-	0.1 – 0.5	Hydrocarbons, terpene processing by-products (Terpene hydrocarbons)	Flam. Liq., 3: H226. Asp. Tox., 1: H304. Skin Irrit., 2: H315. Skin Sens., 1B: H317. Eye Irrit., 2: H319. Aquatic Chron., 2: H411	R10. Xi: R36/38; R43. N: R51/53. R65.

SCL – Specific Concentration Limit.

N/A – Not applicable.

### Non-hazardous ingredients:

CAS No.	EC No.	Index No.	REACH Registration No.	% (weight)	Name	Classification according to Regulation (EC) No. 1278/2008 (CLP)	Classification according to 67/548/EEC
56-81-5	200-289-5	N/A	-	1-10	Glycerol	Not classified.	Not classified.

## 4: First aid measures

### 4.1 Description of first aid measures

The measures below are specifically applicable in event of exposure to the product in concentrate form.

#### General advice

Immediate medical attention is required if in contact with concentrate product. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.



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### Inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If the sachet or concentrate material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Skin contact:

Wash skin immediately with soap and water. Get medical attention if irritation develops and persists. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Wash clothing before reuse.

### Eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Protect unharmed eye. Continue to rinse and get medical attention immediately. Continue to rinse during transport. If eye irritation persists, consult a specialist.

## 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

#### Inhalation:

No specific information.

#### Ingestion:

No specific information.

#### Skin:

Prolonged or repeated exposure may cause irritation to skin. Product contains less than 1% of 'Hydrocarbon, terpene processing by-products' which is a skin sensitizer. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Adverse symptoms may include the following: rash, irritation, redness.

#### Eyes:

Contact with eyes if not treated immediately has the potential to cause serious irritation to the eye.



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See SECTION 11 for more detailed information on health effects and symptoms.

### **4.3 Indications of any immediate medical attention and special treatment needed**

**Notes to physician:**

No specific treatment. Treat symptomatically.

**Protection of first aid personnel**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## **5: Firefighting measures**

### **5.1 Extinguishing media**

**Suitable:**

Use water spray, fog or alcohol resistant foam, carbon dioxide.

**Not suitable:**

Do not use water jet.

### **5.2 Special hazards arising from the substance or mixture**

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products**

In combustion may emit toxic fumes.

### **5.3 Advice for firefighters**

**Special precautions for fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



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## **6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing to the product concentrate from damaged or leaking packets.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Avoid breathing vapour or mist.

### **6.2 Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### **6.3 Methods and materials for containment and cleaning up**

#### **Small spill:**

Move containers from spill area. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

#### **Large spill:**

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

### **6.4 Reference to other sections**

Note: see SECTION 1 for emergency contact information, SECTION 8 for personal protection and section 13 for waste disposal.

## **7: Handling and storage**

The intact sachets can be handled without the need for personal protective equipment while ensuring that care is taken when handling to avoid damage, leakage or spillage. In the event of potential exposure to the concentrate product the following precautions are applicable.



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## 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing.

Persons with a history of skin sensitization problems should be advised that the product contains 'Hydrocarbons, terpene processing by-products'. Individuals sensitised to this substance should not employed in any process in which this product is used.

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), food and drink. Store between 4°C and 60°C. Keep outer container tightly closed and sealed until ready for use. Reseal after use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 7.3 Specific end use(s)

Not applicable.

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### United Kingdom (UK) Occupational Exposure Limits

Substance	CAS Number	Workplace exposure limit (WEL)				Comment
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit – STEL (15 minute reference period)		
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>	
Glycerol, mist	56-81-5	-	10	-	-	

#### Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)

#### DNELs





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No information available.

### **PNECs**

No information available.

## **8.2 Exposure controls**

The following applies to exposure to the concentrate. The sachets may be handled in accordance with Section 7.

### **General**

Avoid contact with skin, eyes and clothing.

### **Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure that there is sufficient ventilation of the area.

### **Eye and face protection**

Wear tightly fitting safety goggles, safety spectacles and/or face shield (visor) with CE-label.

### **Skin protection**

Wear chemical protective gloves according to DIN EN 374 with CE-labelling. Suitable materials include Nitrile rubber, NBR. Gloves for mechanical protection do not provide protection against chemicals.

Wear protective clothing.

### **Inhalation**

Provide a good standard of general ventilation. Use outdoors or ensure not less than 3 to 5 air changes per hour. In case where occupational exposure limits may be exceeded wear a suitable respiratory protective device with vapour filter with CE-labelling. Applicable standards for continuous wear time of less than 2 hour are BS EN 140 mask and BS EN 143 Filter; BS EN 1827.

## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b> Physical state Color	Clear Liquid. Dark blue.
<b>Odour</b>	Citrus, Pine.
<b>Odour threshold</b>	No information available.
<b>pH</b>	8.5 ± 0.5
<b>Melting Point</b>	No information available.
<b>Initial boiling point and boiling range</b>	No information available.
<b>Flash point</b>	> 90°C
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits; Explosion limits</b> Upper Lower	No information available. No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	0.99
<b>Solubility</b>	No information available.
<b>Partition coefficient: n-octanol/water</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Oxidising properties</b>	No information available.

### 9.2 Other information

Not applicable.

## 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions. Hazardous polymerisation will not occur.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Avoid extremes of heat (>60°C) and cold (<-1°C).

## 10.5 Incompatible materials

Avoid strong bases, acids and strong oxidising or reducing agents.

## 10.6 Hazardous decomposition products

In combustion may emit toxic fumes such as oxides of carbon and sulphur.

# 11: Toxicological information

## 11.1 Information on toxicological effects

No data is available on the product. Based on the hazardous substances in the mixture and their concentration, the product has been assessed according to the calculation method of Regulation (EC) 1272/2008.

### (a) Acute toxicity

#### Oral

Based on the available data on component substances, the product is harmful by ingestion due to the presence of the Alcohol Ethoxylate compound 'Undecan-1-ol, ethoxylated'.

#### Dermal

Based on the available data on component substances, the classification criteria for acute dermal toxicity are not met.

#### Inhalation

Based on the available data on component substances, the classification criteria for acute inhalation toxicity are not met.

#### Other routes

No data.

### (b) Skin corrosion/irritation

Based on the available data on component substances, the product may cause skin irritation.



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**(c) Serious eye damage/irritation**

Based on the available data on component substances, the product may cause serious eye damage due to the presence of the Alcohol Ethoxylate compound 'Undecan-1-ol, ethoxylated'.

**(d) Respiratory or skin sensitization**

Based on the available data on component substances, the classification criteria for skin or respiratory sensitisation are not met. The product does, however, contain a small amount of 'Hydrocarbons, terpene processing by-products', which is a skin sensitizer. Individuals sensitised to this substance may suffer an allergic reaction on contact with the product.

**(e) Germ cell mutagenicity**

Based on the available data on component substances, the classification criteria for germ cell mutagenicity are not met.

**(f) Carcinogenicity**

Based on the available data on component substances, the classification criteria for carcinogenicity are not met.

**(g) Reproductive toxicity**

Based on the available data on component substances, the product may affect developmental and fertility due to the presence of the Tetrahydrofurfuryl Alcohol component. In reproductive toxicity studies in animals, high exposure to Tetrahydrofurfuryl Alcohol resulted in adverse effects on sexual organs and function and on development.

**(h) STOT-single exposure**

Based on the available data on component substances, the classification criteria for specific target organ toxicity resulting from single exposure are not met.

**(i) STOT-repeated exposure**

Based on the available data on component substances, the classification criteria for specific target organ toxicity resulting from repeated exposure are not met.

**(j) Aspiration hazard**

Based on the available data on component substances, the classification criteria for aspiration hazard are not met.

**Other information**

No other known significant effects or critical hazards.



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## 12: Ecological information

### 12.1 Toxicity

No data is available on the product. Based on the hazardous substances in the mixture and their concentration the product has been assessed according to the calculation method of Regulation (EC) 1272/2008.

The product is not classified as dangerous to the environment.

### 12.2 Persistence and degradability

Substance	Biodegradability
2-methylpentane-2,4-diol	Readily biodegradable
Undecan-1-ol, ethoxylated	Readily biodegradable

### 12.3 Bioaccumulative potential

Substance	Bioaccumulative potential
Undecan-1-ol, ethoxylated	Low potential

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be PBT or vPvB.

### 12.6 Other adverse effects

No information.



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## **13: Disposal considerations**

### **13.1 Waste treatment methods**

**Methods of disposal:**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste:**

The classification of the product may meet the criteria for a hazardous waste.

## **14: Transport information**

Product is not classified as dangerous for transport.

### **14.1 UN number**

Not applicable.

### **14.2 UN proper shipping name**

Not applicable.

### **14.3 Transport hazard class(es)**

Not applicable.

### **14.4 Packing group**

Not applicable.

### **14.5 Environmental hazards**

Environmentally hazardous and/or Marine Pollutant: **No**

### **14.6 Special precautions for user**

Not applicable.

### **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**



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Not applicable.

## 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**CLP** – Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

#### REACH Status

Where applicable, the substances in this product have been pre-registered, registered or are exempt according to Regulation (EC) No. 1907/2006 (REACH).

#### Detergent Regulation [Regulation (EC) No 648/2004]

Product ingredients include:-

- 30% or more of alcohol ethoxylate surfactant, Undecan-1-ol, ethoxylated.
- Less than 5% of Terpene Hydrocarbons, L-beta-Pinene, Alpha-Pinenes.

#### SEVESO II Directive 96/82/EC (as amended) .

#### UK Regulations

COSHH – Control of Substances Hazardous to Health Regulations 2002 (as amended).

COMAH – Control of Major Accidents Hazards Regulations 1999 (as amended).



CHIP – The Chemical (Hazard Information and Packaging for Supply) Regulations 2009.

### 15.2 Chemical safety assessment

Chemical safety assessments have been conducted by various REACH Registrants for some of the substances listed in Section 3.2.

## 16: Other information

Labelling according to Directive 1999/45/EC

Symbols			
Indication of Danger	<b>Toxic</b>	<b>Irritant</b>	
Risk Phrases	R22	Harmful if swallowed	
	R41	Risk of serious damage to eyes.	
	R38	Irritating to skin.	
	R61	May cause harm to the unborn child.	
	R62	Possible risk of impaired fertility.	
Safety Phrases	S24/25	Avoid contact with skin and eyes.	
	S28	After contact with skin, wash immediately with plenty of water and soap.	
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.	
	S38	In case of insufficient ventilation wear suitable respiratory equipment.	
	S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).	
		<b>Restricted to professional users.</b>	

### Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360Df	May damage fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### Full text of classifications (CLP)

Acute toxicity, Category 4; H302.





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Skin irritant, Category 2; H315.  
Eye damage, Category 1; H318.  
Eye irritant, Category 2; H319.  
Skin sensitiser, Category 1; H317.  
Aspiration toxicity, Category 1; H304.  
Reproductive toxicity, Category 1B; H360Df.  
Aquatic chronic toxicity, Category 2; H411.

### Full text of abbreviated R phrases

R10	Flammable.
R22	Harmful if swallowed.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Full text of classification (DSD/DPD)

T	Toxic
Xn	Harmful
Xi	Irritant
N	Dangerous for the environment.

### Other abbreviations

PBT : Persistent, bioaccumulative and toxic.  
vPvB : Very persistent and very bioaccumulative.

History	
Date of printing	
Date of issue/Date of revision	14 <sup>th</sup> January 2015
Date of previous issue	Not applicable <sup>(1)</sup>
Version	01

**Note (1)** – New SDS for CLP/GHS compliant product classification and labelling and REACH Annex II Regulation (EU) No 453/2010.

**SDS compiled according to Regulation (EC) No. 1907/2006 (as amended).**



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