

grotan® OK plus **No Change Service!**

Version 07.00 Revision Date 07.05.2015

Date of last issue 03.07.2013

Date of first issue 02.07.2004

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : grotan® OK plus

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Preservative**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.comContact person : SAI/AT +49 40 52100 100 or S&M UK +44 114 254 3500
sai-at@schuelke.com**1.4 Emergency telephone number**

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266

Emergency telephone number : +49 (0)40 / 52 100 -0

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

| | |
|--------------------------------------|--|
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Skin corrosion, Sub-category 1C | H314: Causes severe skin burns and eye damage. |
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Acute aquatic toxicity, Category 1 | H400: Very toxic to aquatic life. |
| Chronic aquatic toxicity, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

Classification (67/548/EEC, 1999/45/EC)

| | |
|-------------------------------|---|
| Corrosive | R20/22: Harmful by inhalation and if swallowed. |
| Dangerous for the environment | R34: Causes burns. |
| | R50: Very toxic to aquatic organisms. |

2.2 Label elements**Labelling**

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| | | |
|--------------------------------|---|--|
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H302 + H332 Harmful if swallowed or if inhaled H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. |
| Supplemental Hazard Statements | : | EUH070 Toxic by eye contact. |
| Precautionary statements | : | P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves (e.g. butyl rubber) /protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. |

Hazardous components which must be listed on the label:

66204-44-2 3,3'-Methylenebis[5-methyloxazolidine]

Special labelling of certain mixtures : Use biocides safely. Always read the label and product information before use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

| Chemical Name | Index-Number CAS-No. EC-No. Registration | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration (%) |
|---------------|---|--------------------------------|--|----------------------|
| | | | | |

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| | number | | | |
|--|--|---------------------------------------|---|-----------|
| 3,3'-Methylenebis[5-methyloxazolidine] | 66204-44-2 266-235-8 | Xn; R20/22 C; R34 R52 | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1C; H314 | 80 - 90 % |
| Ethylene glycol | 603-027-00-1 107-21-1 203-473-3 01- 2119456816- 28-XXXX | Xn; R22 | Acute Tox. 4; H302 STOT RE 2; H373 | 5 - 10 % |
| Pyridine-2-thiol-1-oxide, sodium salt | 3811-73-2 223-296-5 | Xn; R20/21/22 Xi; R36/38 N; R50 | Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH070 | 1 - 2 % |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
 If inhaled : If symptoms persist, call a physician.
 In case of skin contact : Wash off immediately with plenty of water.
 In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 If swallowed : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
 Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO2)
 Unsuitable extinguishing media : No information available.

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

Specific risk from the substance or the product itself, its combustion products or evolved gases : Decomposition products, see chapter 10

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning upMethods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).**6.4 Reference to other sections**

see Section 8 + 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Use only in well-ventilated areas. Handle and open container with care.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Limited stability - see label on pack.

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : none

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------------------------------|-----------|-------------------------------|-----------------------------------|------------|
| Formaldehyde | 50-00-0 | Permissible exposure limit | 0,3 ppm 0,37 mg/m ³ | TRGS 900 |
| Formaldehyde | 50-00-0 | Ceiling Limit Value | 0,6 ppm 0,74 mg/m ³ | TRGS 900 |
| Formaldehyde | 50-00-0 | Permissible exposure limit | 0,75 ppm | OSHA |
| Formaldehyde | 50-00-0 | Short term exposure limit | 2 ppm | OSHA |
| Ethylene glycol | 107-21-1 | Permissible exposure limit | 20 ppm 52 mg/m ³ | EC/2000/39 |
| Ethylene glycol | 107-21-1 | Short term exposure limit | 40 ppm 104 mg/m ³ | EC/2000/39 |
| Pyridine-2-thiol-1-oxide, sodium salt | 3811-73-2 | Permissible exposure limit | 1 mg/m ³ | TRGS 900 |
| Pyridine-2-thiol-1-oxide, sodium salt | 3811-73-2 | Ceiling Limit Value | 2 mg/m ³ | TRGS 900 |

Hazardous decomposition products

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Ethylene glycol : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Long-term systemic effects, Value: 106 mg/kg
 End Use: Workers, Exposure routes: Inhalation, Potential health effects: Long-term local effects, Value: 35 mg/m³
 End Use: Consumers, Exposure routes: Inhalation, Potential health effects: Long-term local effects, Value: 7 mg/m³
 End Use: Consumers, Exposure routes: Skin contact, Potential health effects: Long-term systemic effects, Value: 53 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Ethylene glycol : Fresh water, Value: 10 mg/l
 Marine water, Value: 1 mg/l
 Fresh water sediment, Value: 20,9 mg/kg
 Effects on waste water treatment plants, Value: 199,5 mg/l
 Soil, Value: 1,53 mg/kg
 Intermittent use/release, Value: 10 mg/kg

8.2 Exposure controls**Personal protective equipment**

Eye protection : Tightly fitting safety goggles

Hand protection : Impervious gloves Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures : Avoid contact with skin and eyes.

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Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|--|
| Appearance | : Liquid |
| Colour | : light yellow - pale red-brown |
| Odour | : amine-like |
| Odour Threshold | : not determined |
| Flash point | : > 100 °C, ISO 2719 |
| Ignition temperature | : Not applicable |
| Auto-ignition temperature | : not auto-flammable |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flammability | : not auto-flammable |
| Explosive properties | : Not explosive |
| Oxidizing properties | : Not applicable |
| pH | : 10 - 11, Concentration: 10,00 g/l, 20 °C, in water |
| Freezing point | : < -18 °C |
| Boiling point | : > 100 °C, |
| Vapour pressure | : not determined, |
| Relative vapour density | : not determined |
| Density | : 1,080 - 1,120 g/ml, 20 °C |
| Water solubility | : in all proportions, 20 °C |
| Partition coefficient: n-octanol/water | : Not applicable |
| Viscosity, dynamic | : 996 mPa*s, 20 °C, Rheo WIN RS 600, |
| Flow time | : ca. 180 s at 20 °C, DIN 53211 |
| Evaporation rate | : not determined |

9.2 Other information

| | |
|------------------|------------------------|
| Surface tension | : 27 mN/m |
| Refractive index | : 1,480 - 1,492, 20 °C |

SECTION 10: Stability and reactivity**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

reaction with acids

10.4 Conditions to avoid

No data available

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10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products

formaldehyde

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

- Acute oral toxicity : LD50: 900 mg/kg, Rat
Acute inhalation toxicity : LC50: 2 mg/l, 4 h, Rat, dust/mist, OECD Test Guideline 436, GLP: yes
Acute dermal toxicity : LD50: 1207 - 1620 mg/kg, Rat, OECD Test Guideline 402, not applicable, corrosive substance. According Guidline OECD 402 a non- corrosive concentration has to be tested

Ethylene glycol:

- Acute oral toxicity : LDLo: 1600 mg/kg, Humans
Acute inhalation toxicity : LC50: 2,5 mg/l, 6 h, Rat
Acute dermal toxicity : LD50: 3500 mg/kg, Mouse

Pyridine-2-thiol-1-oxide, sodium salt:

- Acute oral toxicity : LD50 Oral: 1208 mg/kg, Rat
Acute inhalation toxicity : LC50: 1,08 mg/l, Rat
Acute dermal toxicity : LD50 Dermal: 1800 mg/kg, Rabbit

Skin corrosion/irritation**Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

Severe skin irritation, Rabbit, concentrate

Ethylene glycol:

No skin irritation, Rabbit

Pyridine-2-thiol-1-oxide, sodium salt:

Irritating to skin.

Serious eye damage/eye irritation**Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

Risk of serious damage to eyes., Rabbit, concentrate

Ethylene glycol:

- No eye irritation, Rabbit

Pyridine-2-thiol-1-oxide, sodium salt:

Irritating to eyes.

Respiratory or skin sensitisation**Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

Did not cause sensitisation on laboratory animals. Guinea pig, OECD Test Guideline 406

Ethylene glycol:

- Patch test on human volunteers did not demonstrate sensitisation properties.

Pyridine-2-thiol-1-oxide, sodium salt:

Does not cause skin sensitisation.

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Germ cell mutagenicity**Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

Genotoxicity in vitro : Not mutagenic in Ames Test OECD 471
Genotoxicity in vivo : Did not show mutagenic effects in animal experiments., Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, OECD Test Guideline, 475

Ethylene glycol:

Germ cell mutagenicity- Assessment : In vivo tests did not show mutagenic effects

Pyridine-2-thiol-1-oxide, sodium salt:

Germ cell mutagenicity- Assessment : No data available

Carcinogenicity**Components:****Ethylene glycol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Pyridine-2-thiol-1-oxide, sodium salt:

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Ethylene glycol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Teratogenicity - Assessment : Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

Pyridine-2-thiol-1-oxide, sodium salt:

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

STOT - single exposure**Components:****Ethylene glycol:**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Components:****Ethylene glycol:**

Ingestion, Kidney, May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

Rat: NOAEL: 72 mg/kg, Repeated dose (90 days) toxicity (oral), OECD Test Guideline, 408

Aspiration toxicity

No data available

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SECTION 12: Ecological information**12.1 Toxicity****Components:****3,3'-Methylenebis[5-methyloxazolidine]:**

| | |
|---|--|
| Toxicity to fish | : LC50 (Brachidanio rerio): 57,7 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna): 37,9 mg/l, 48 h |
| Toxicity to algae | : EC50 (Desmodesmus subspicatus (green algae)): 5,7 mg/l, 72 h |
| Toxicity to bacteria | : EC50: 44 mg/l, OECD 209 |

Ethylene glycol:

| | |
|--|---|
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 72.860 mg/l, 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna): > 100 mg/l, 48 h |
| Toxicity to algae | : EC50 (Selenastrum capricornutum (green algae)): 6.500 - 13.000 mg/l, 96 h |
| Toxicity to fish (Chronic toxicity) | : NOEC (Pimephales promelas (fathead minnow)): 15.380 mg/l, 7 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Ceriodaphnia dubia (water flea)): 8.590 mg/l, 7 d |
| Toxicity to bacteria | : EC20 (activated sludge): >1.995 mg/l, 0,5 h, ISO 8192 |

Pyridine-2-thiol-1-oxide, sodium salt:

| | |
|---|---|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss): 0,0066 mg/l, 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0,022 mg/l, 48 h |
| Toxicity to algae | : EC50 (Scenedesmus capricornutum (fresh water algae)): 0,46 mg/l |
| M-Factor (Acute aquatic toxicity) | : 100 |
| M-Factor (Chronic aquatic toxicity) | : 10 |

12.2 Persistence and degradability**Product**

| | |
|------------------|--|
| Biodegradability | : According to the results of tests of biodegradability this product is considered as being readily biodegradable. 100 o/o, OECD Test Guideline 301D |
|------------------|--|

Components:**3,3'-Methylenebis[5-methyloxazolidine]:**

| | |
|------------------|---|
| Biodegradability | : biodegradable OECD 301D / EEC 84/449 C6 |
|------------------|---|

Ethylene glycol:

| | |
|------------------|--|
| Biodegradability | : Readily biodegradable 90 - 100 o/o, 10 d, OECD Test Guideline 301A |
|------------------|--|

Pyridine-2-thiol-1-oxide, sodium salt:

| | |
|------------------|-------------------------|
| Biodegradability | : rapidly biodegradable |
|------------------|-------------------------|

12.3 Bioaccumulative potential**Product**

| | |
|--|------------------|
| Partition coefficient: n-octanol/water | : Not applicable |
|--|------------------|

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Components:**3,3'-Methylenebis[5-methyloxazolidine]:**Partition coefficient: n-
octanol/water : log Pow: -0,3**Ethylene glycol:**

|| Bioaccumulation : No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-
octanol/water : log Pow: -1,36 (23 °C)**Pyridine-2-thiol-1-oxide, sodium salt:**Partition coefficient: n-
octanol/water : log Pow: -3,8**12.4 Mobility in soil****Product**

Mobility : No data available

12.5 Results of PBT and vPvB assessment**Product**

||| This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects**Product**Adsorbed organic bound
halogens (AOX) : Product does not contain any organic halogens.**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Product : Dispose of as special waste in compliance with local and national regulations.
Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste key for the unused
product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)**SECTION 14: Transport information****14.1 UN number**

ADR : UN 2735

IMDG : UN 2735

IATA : UN 2735

14.2 UN proper shipping name

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| | | |
|-------------|---|--|
| ADR | : | AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-Methylenebis[5-methyloxazolidine], Pyridine-2-thiol-1-oxide, sodium salt) |
| IMDG | : | AMINES, LIQUID, CORROSIVE, N.O.S. (3,3'-Methylenebis[5-methyloxazolidine], Pyridine-2-thiol-1-oxide, sodium salt) |
| IATA | : | Amines, liquid, corrosive, n.o.s. (3,3'-Methylenebis[5-methyloxazolidine], Pyridine-2-thiol-1-oxide, sodium salt) |

14.3 Transport hazard class(es)

| | | |
|-------------|---|---|
| ADR | : | 8 |
| IMDG | : | 8 |
| IATA | : | 8 |

14.4 Packing group

| | | |
|--------------------------------------|---|----------|
| ADR | | |
| Packing group | : | III |
| Classification Code | : | C7 |
| Hazard Identification Number | : | 80 |
| Labels | : | 8 + (N) |
| Tunnel restriction code | : | E |
| IMDG | | |
| Packing group | : | III |
| Labels | : | 8 + (N) |
| EmS Code | : | F-A, S-B |
| IATA | | |
| Packing instruction (cargo aircraft) | : | 856 |
| Packing group | : | III |
| Labels | : | 8 + (N) |

14.5 Environmental hazards

| | | |
|---------------------------|---|-----|
| ADR | | |
| Environmentally hazardous | : | yes |
| IMDG | | |
| Marine pollutant | : | yes |

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

|| Volatile organic compounds : 9,4 %, Directive 2010/75/EU on the limitation of emissions of volatile organic compounds

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information**Full text of R-Phrases**

R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
R20/22 : Harmful by inhalation and if swallowed.
R22 : Harmful if swallowed.
R34 : Causes burns.
R36/38 : Irritating to eyes and skin.
R50 : Very toxic to aquatic organisms.
R52 : Harmful to aquatic organisms.

Full text of H-Statements

EUH070 : Toxic by eye contact.
H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

| | |
|-----------------|--|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic toxicity |
| Aquatic Chronic | Chronic aquatic toxicity |
| Eye Irrit. | Eye irritation |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| STOT RE | Specific target organ toxicity - repeated exposure |

Further information

|| Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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