



## SAFETY DATA SHEET NUTRIGROW FWMK 5KG

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

<b>Product name</b>	NUTRIGROW FWMK 5KG
<b>Product number</b>	I0231
<b>REACH registration notes</b>	This Mixture is exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH) All raw materials used in the mixture are REACH registered where necessary.

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

<b>Identified uses</b>	Supplies for professional and amateur use as a herbicide weed killer and moss killer
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#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	PB Kent Alexandra Road South, Immingham Dock Immingham DN40 2QW +44 (0) 1469 563980 +44 (0) 1469 571444 sales@pbkent.co.uk
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#### 1.4. Emergency telephone number

<b>Emergency telephone</b>	+44 (0) 1469 563980 Mon - Fri 8am - 5pm
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
<b>Environmental hazards</b>	Aquatic Chronic 3 - H412

#### 2.2. Label elements

##### Hazard pictograms



<b>Signal word</b>	Warning
<b>Hazard statements</b>	EUH208 Contains 2,4-D (ISO), nickel sulfate. May produce an allergic reaction. H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>iron (II) sulfate</b>	<b>10-30%</b>
CAS number: 7720-78-7	EC number: 231-753-5
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
<b>SSP Single Superphosphate</b>	<b>5-10%</b>
CAS number: 8011-76-5	EC number: 232-379-5
	REACH registration number: 01-2119488967-11-0004
<b>Classification</b>	
Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b>
	Xi; R41
<b>mecoprop (ISO)</b>	<b>&lt;1%</b>
CAS number: 7085-19-0	EC number: 230-386-8
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Aquatic Chronic 2 - H411	
<b>2,4-D (ISO)</b>	<b>&lt;1%</b>
CAS number: 94-75-7	EC number: 202-361-1
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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<b>dicamba (ISO)</b>	<b>&lt;1%</b>
CAS number: 1918-00-9	EC number: 217-635-6
<b>Classification</b>	
Eye Irrit. 2 - H319	
Aquatic Chronic 3 - H412	
<b>nickel sulfate</b>	<b>&lt;1%</b>
CAS number: 7786-81-4	EC number: 232-104-9
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 1A - H350i	
Repr. 1B - H360D	
STOT RE 1 - H372	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Do not induce vomiting unless under the direction of medical personnel. Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink.
<b>Skin contact</b>	Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.

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

<b>Inhalation</b>	Dust in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	The product is considered to be a low hazard under normal conditions of use.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended. The product is considered to be a low hazard under normal conditions of use.
<b>Eye contact</b>	Causes serious eye irritation. Prolonged or repeated exposure may cause severe irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Not applicable.

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

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Harmful to aquatic life with long lasting effects. The product is slowly degradable. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Avoid discharge into drains and the aquatic environment. Use appropriate containment to avoid environmental contamination. Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

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**Methods for cleaning up** Take care as floors and other surfaces may become slippery. Avoid generation and spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations. Do not empty into drains. Collect and dispose of spillage as indicated in Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in a dry place. Keep cool. Keep only in the original container. Keep container in a well-ventilated place. Keep out of the reach of children. Keep away from combustible materials. Keep away from heat. Store away from incompatible materials (see Section 10).

### 7.3. Specific end use(s)

**Specific end use(s)** The substance has not been assessed for the specific end-points listed in 1.2, so it's hazardous property in this regard is not known

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Sand

Long-term exposure limit (8-hour TWA): Silica Dust (respirable) WEL 0.1Mg/m<sup>3</sup>

##### iron (II) sulfate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### SSP Single Superphosphate (CAS: 8011-76-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.1 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day  
General population - Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 2.1 mg/kg/day  
General population - Dermal; Long term systemic effects: 10.4 mg/kg/day

**PNEC** - Fresh water; 1.7 mg/l  
- marine water; 0.17 mg/l  
- Intermittent release; 17 mg/l  
- STP; 10 mg/l

#### 2,4-D (ISO) (CAS: 94-75-7)

**DNEL** Workers - ; TWA 8h : 10 mg/m<sup>3</sup>  
Workers - ; Short term : 20 mg/m<sup>3</sup>

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## mecoprop (ISO) (CAS: 7085-19-0)

**DNEL**

Workers - ; TWA 8h : 10 mg/m<sup>3</sup>

Workers - ; Short term : 20 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

All handling should only take place in well-ventilated areas.

#### Eye/face protection

Wear eye protection. Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

#### Respiratory protection

No specific recommendations.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Granules.
<b>Colour</b>	Beige. to Dark brown. or Black.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	ca.3.0 (1% Dilution in Water)
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	Not relevant.
<b>Evaporation rate</b>	Not relevant.
<b>Flammability (solid, gas)</b>	The product is not flammable.
<b>Vapour pressure</b>	Not relevant.
<b>Vapour density</b>	Not relevant.
<b>Relative density</b>	Not relevant.
<b>Bulk density</b>	Pour Density 0.9g/mL Tap Density 0.94g/mL
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not known.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.

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<b>Viscosity</b>	Not relevant.
<b>Explosive properties</b>	Not relevant.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	No test data specifically related to reactivity available for this product or its ingredients.
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### 10.2. Chemical stability

<b>Stability</b>	Stable when stored in a dry place.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid Extremes of temperature
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Water, moisture.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Possible Irritant Fumes
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	This product is not classified for acute toxicity based on the individual toxicity values of the component included within the product and calculation methods given in Regulation 1272/2009
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#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Iron Sulphate: EFSA peer review endpoint (EFSA journal 2012; 10 (1): 2521) Rat LD50 1185 - 1750 mg/kg bw FeSO4 (H302) Harmful if swallowed. Dicamba EFSA peer review endpoint (EFSA Journal 2011; 9(1):1965) Rat LD50 1581 mg/kg bw (H302) Harmful if Swallowed. Mecoprop-P Supplier SDS, Rat LD50 775 mg/kg bw (H302) Harmful if swallowed. 2,4-D Acid: EFSA Journal 2014; 12(9):3812 Rat LD50 >300 & <2000 mg/kg bw. (H302) Harmful if swallowed.
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<b>ATE oral (mg/kg)</b>	3,787.88
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	No specific test data are available.
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	No information available.
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#### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met. Not classified for skin irritant as confirmed via study data (OECD439)
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### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation. Classified as an eye irritant category 2 as confirmed via study data (OECD438).

### Respiratory sensitisation

**Respiratory sensitisation** No specific test data are available.

### Skin sensitisation

**Skin sensitisation** No classified for skin sensitisation category 1. Due to the content of 2,4D and it's classification as a skin sensitiser, EUH208 is applied.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** No specific test data are available. There is no evidence that the product can cause cancer.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Skin contact

May cause an allergic skin reaction.

### Eye contact

Causes serious eye irritation.

## SECTION 12: Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Classified as Harmful to aquatic life with lasting effects as part of the products evaluation under regulation 1107/2009

### 12.1. Toxicity

### 12.2. Persistence and degradability

**Persistence and degradability** The product is slowly degradable.

### 12.3. Bioaccumulative potential

**Partition coefficient** Not known.

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not relevant.

## SECTION 13: Disposal considerations



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### 13.1. Waste treatment methods

#### **General information**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### **Disposal methods**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Only store in correctly labelled containers. Dispose of contents/container in accordance with national regulations. Do not empty into drains.

### **SECTION 14: Transport information**

#### **General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Applicable for Maritime bulk transport only. Check with carrier.

### **SECTION 15: Regulatory information**

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

##### **EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**

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<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>SVHC: Substances of Very High Concern.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>cATpE: Converted Acute Toxicity Point Estimate.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>DMEL: Derived Minimal Effect Level.</p>
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	10/02/2022
<b>Revision</b>	5
<b>Supersedes date</b>	18/07/2019
<b>SDS number</b>	6103
<b>Risk phrases in full</b>	<p>R22 Harmful if swallowed.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R37 Irritating to respiratory system.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>

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### Hazard statements in full

H302 Harmful if swallowed.  
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.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350i May cause cancer by inhalation.  
H360D May damage the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains 2,4-D (ISO), nickel sulfate. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.