Annex II

## **DEBUT® PLUS**

Version 1.0

Revision Date 03.01.2018 Ref. 130000144794

TIVIC

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

1.1. Product identifier

Product name : DEBUT® PLUS Synonyms : B11990446 DPX-NA439

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

Use of the Substance/Mixture : Herbicide

1.3. Details of the supplier of the safety data sheet

Company : Headland Agrochemicals Limited

Rectors Lane, Pentre, Deeside, Flintshire CH5 2DH

United Kingdom

E-mail address : SDS.Ronland@fmc.com

1.4. Emergency telephone number

 Medical emergencies:
 Netherlands: +31 30 274 88 88

 Austria: +43 1 406 43 43
 Norway: +47 22 591300

 Belgium: +32 70 245 245
 Poland: +48 22 619 66 54

Bulgaria: +359 2 9154 409 +48 22 619 08 97

Cyprus: 1401 Portugal: 808 250 143 (in Portugal only)

Czech Republic: +420 224 919 293 +351 21 330 3284

 +420 224 915 402
 Romania: +40 21318 3606

 Denmark: +45 82 12 12 12
 Slovakia: +421 2 54 77 4 166

 France: +33 (0) 1 45 42 59 59
 Slovenia: +386 41 650 500

 Finland: +358 9 471 977
 Spain: +34 91 562 04 20

Greece: 30 210 77 93 777 Sweden: +46 08-331231 Hungary: +36 80 20 11 99 112

Ireland (Republic): +352 1 809 2166 Switzerland: 145

 Italy: +39 02 6610 1029
 United Kingdom: 0870 600 6266 (in the UK only)

 Lithuania: +370 523 62052
 U.S.A. & Canada: +1 800 / 331-3148 (ProPharma)

 +370 687 53378
 All other countries: +1 651 / 632-6793 (ProPharma 

Luxembourg: +352 8002 5500 Collect)

For fire, leak, spill or other accident emergencies:

U.S.A.: +1 800 / 424 9300 (CHEMTREC)

All other countries: +1 703 / 527 3887 (CHEMTREC - Collect)

**SECTION 2: Hazards identification** 

2.1. Classification of the substance or mixture

Carcinogenicity, Category 2 H351: Suspected of causing cancer. Acute aquatic toxicity, H400: Very toxic to aquatic life.

Category 1

Chronic aquatic toxicity, H410: Very toxic to aquatic life with long lasting effects.

Category 1

2.2. Label elements

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### Warning

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous-waste disposal

contractor or collection site except for empty clean containers which can be

disposed of as non-hazardous waste.

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
Lenacil (CAS-No.2164-08-1) (E (M-Factor: 10[Acute] 1[Chror	•	
	Carc. 2; H351	>= 70 - <= 75 %

Aquatic Acute 1; H400 Aquatic Chronic 1; H410

# Triflusulfuron-methyl (CAS-No.126535-15-7)

(M-Factor : 100[Acute] 10[Chronic])

(M-1 actor : Too[Acate] To[Officine]	1	
	Aquatic Acute 1; H400	>= 5 - <= 10 %
	Aquatic Chronic 1; H410	

Sodium diisopropylnaphthalenesulphonate (CAS-No.1322-93-6) (EC-No.215-343-3)

Acute Tox. 4; H302 >= 1 - < 5 % Acute Tox. 4; H332			
		Acute Tox. 4; H302	>= 1 - < 5 %
011 111 0 11015		Acute Tox. 4; H332	
Skin Irrit. 2; H315		Skin Irrit. 2; H315	

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Eye Irrit. 2; H319 STOT SE 3; H335

The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. For specialist advice

physicians should contact the National Poisons Information Service: Tel. 111

for England and Wales and Tel. 08454 24 24 24 for Scotland.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician

after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately

with soap and plenty of water. In the case of skin irritation or allergic reactions

see a physician. Wash contaminated clothing before re-use.

Eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Hold eye

open and rinse slowly and gently with water for 15-20 minutes. If eye irritation

persists, consult a specialist.

Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by

a physician or poison control center. If victim is conscious: Rinse mouth with

water.

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

Symptoms : No cases of human intoxication are known and the symptoms of experimental

intoxication are not known.

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Extinguishing media which shall not be used for safety

: High volume water jet, (contamination risk)

reasons

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

Specific hazards during : Hazardous decomposition products formed under fire conditions. Carbon

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**FMC** 

5.3. Advice for firefighters

Special protective equipment

for firefighters

firefighting

: Wear full protective clothing and self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground

dioxide (CO2) Nitrogen oxides (NOx)

water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire

burn itself out since water may increase the area contaminated. Cool

containers/tanks with water spray.

### **SECTION 6: Accidental release measures**

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

Personal precautions : Control access to area. Avoid dust formation. Avoid breathing dust. Use

personal protective equipment. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in sections 7 and 8.

### 6.2. Environmental precautions

Environmental precautions : Prevent further

: Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect

in suitable container for disposal.

Clean-up methods - large spillage Do not create a powder cloud by using a brush or compressed air. Avoid dust formation. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

If spill area is on ground near valuable plants or trees, remove 5 cm of top soil

after initial clean-up.

Other information : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

### 6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.

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### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling

Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Avoid exceeding the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

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

Requirements for storage areas and containers

Store in original container. Keep in properly labelled containers. Keep container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : Keep away from: Strong bases

Other data : Stable under recommended storage conditions.

## 7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

If sub-section is empty then no values are applicable.

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Provide for

appropriate exhaust ventilation and dust collection at machinery. Contains no

substances with occupational exposure limit values.

Eye protection : Safety glasses with side-shields conforming to EN166 Hand protection : Material: Nitrile rubber

Glove thickness: 0.3 mm

Glove length: Standard glove type.

Protection index: Class 6 Wearing time: 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by

the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or

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chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under

the combination sleeve.

Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-Skin and body protection

> 2) Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Backpack / knapsack sprayer: Full protective clothing Type 6 (EN 13034) Nitrile rubber

boots (EN 13832-3 / EN ISO 20345).

Mechanical automatized spray application in closed tunnel: No personal body

protection normally required.

The type of protective equipment must be selected according to the Protective measures

> concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical

> damage or if contaminated. Only protected handlers may be in the area during

application.

Handle in accordance with good industrial hygiene and safety practice. Regular Hygiene measures

cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

Dispose of rinse water in accordance with local and national regulations.

Respiratory protection Manufacturing and processing work: Mixer and loaders must wear: Half mask

> with a particle filter FFP1 (EN149) Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Backpack / knapsack sprayer: Half mask with a

particle filter P1 (EN 143).

Mechanical automatized spray application in closed tunnel: No personal

respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Form : solid

Colour : off-white, brown

Odour : slight

Odour Threshold : not determined

: 7.7 pΗ

Melting point/range : Not available for this mixture.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

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Flammability (solid, gas) : Does not sustain combustion.

Auto-ignition temperature : Test Type :Auto-ignition temperatureno data available

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

Lower explosion limit/ lower

flammability limit

: no data available

Upper explosion limit/ upper

flammability limit

: no data available

Vapour pressure : Not available for this mixture.

Relative density : Not available for this mixture.

Bulk density : 482 kg/m3 , packed

Water solubility : dispersible

Partition coefficient: n-

octanol/water

: Not applicable

Viscosity, kinematic : not determined

Relative vapour density : Not applicable

Evaporation rate : Not applicable

9.2. Other information

Phys.-chem./other information : No other data to be specially mentioned.

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity** : No hazards to be specially mentioned.

**10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use

and temperature.

10.3. Possibility of

hazardous reactions

: No dangerous reaction known under conditions of normal use. Polymerization

will not occur. No decomposition if stored and applied as directed.

**10.4. Conditions to avoid** : To avoid thermal decomposition, do not overheat. Under severe dusting

conditions, this material may form explosive mixtures in air. Decomposes slowly

on exposure to water. Exposure to moisture

**10.5. Incompatible materials** : Incompatible with bases.

10.6. Hazardous

decomposition products

: Sulphur oxides Hydrogen fluoride



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### SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

#### Acute oral toxicity

LD50 / Rat : > 5,000 mg/kg

Method: OECD Test Guideline 401

The toxicological data has been taken from products of similar composition. Information source: Internal study

report (Data on the product itself)

## Acute inhalation toxicity

Acute toxicity estimate : > 5 mg/l Method: Calculation method

### Acute dermal toxicity

LD50 / Rabbit : > 2,000 mg/kg Method: OECD Test Guideline 402

The toxicological data has been taken from products of similar composition. Information source: Internal study

report (Data on the product itself)

### Skin irritation

Result: Irritating to skin.

Information source: Internal study report (Data on the product itself)

## Eye irritation

Result: Irritating to eyes.

Information source: Internal study report (Data on the product itself)

#### Sensitisation

May cause sensitisation by skin contact. Information source: Internal study report (Data on the product itself)

### Repeated dose toxicity

## Lenacil

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Ingestion Not tested on animals

Exposure time: 90 d NOAEL: > 100 mg/kg

No toxicologically significant effects were found.

Oral - feed Mouse Exposure time: 90 d Increased liver weight

Oral - feed Dog Exposure time: 90 d

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Liver effects, Spleen effects

### Triflusulfuron-methyl

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed multiple species

Reduced body weight gain, Liver effects, Abnormal decrease in number of red blood cells

## Mutagenicity assessment

#### Lenacil

Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

## Triflusulfuron-methyl

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

### Carcinogenicity assessment

Lenacil

Suspected human carcinogens

### Triflusulfuron-methyl

Suspected human carcinogens An increased incidence of tumours was observed in laboratory animals. Target(s): Testes Liver

The observed tumors do not appear to be relevant for men.

## Toxicity to reproduction assessment

Triflusulfuron-methyl

No toxicity to reproduction Animal testing did not show any effects on fertility.

### Assessment teratogenicity

Lenacil

Animal testing showed no developmental toxicity.

Triflusulfuron-methyl

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

## STOT - single exposure

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

## STOT - repeated exposure

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

## Aspiration hazard

The mixture does not have properties associated with aspiration hazard potential.





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## **SECTION 12: Ecological information**

## 12.1. Toxicity

Toxicity to fish

Lenacil

static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 2.0 mg/l

Method: OECD Test Guideline 203 Information source: Internal study report

Toxicity to aquatic invertebrates

Lenacil

EC50 / 48 h / Daphnia magna (Water flea): > 4.4 mg/l

Method: OECD Test Guideline 202 Information source: Internal study report

Chronic toxicity to fish

Lenacil

Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 0.16 mg/l

Method: OECD Test Guideline 210 Information source: Internal study report

Triflusulfuron-methyl

NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): > 210 mg/l

Method: OECD Test Guideline 204

Chronic toxicity to aquatic Invertebrates

Lenacil

NOEC / 21 d / Daphnia magna (Water flea): 0.48 mg/l

Method: OECD Test Guideline 202 Information source: Internal study report

Triflusulfuron-methyl

NOEC / 21 d / Daphnia magna (Water flea): 11 mg/l

## 12.2. Persistence and degradability

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

### 12.3. Bioaccumulative potential

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

## 12.4. Mobility in soil

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Mobility in soil

Potentially mobile, but the leaching potential is mitigated by rapid degradation.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### 12.6. Other adverse effects

### Additional ecological information

No data is available on the product itself. No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product : In accordance with local and national regulations. Must be incinerated in a

suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or

used container.

Contaminated packaging : Do not re-use empty containers.

European Waste Catalogue

number

: 020108: agrochemical waste containing dangerous substances

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

ADR

14.1. UN number: 3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Lenacil, Triflusulfuron methyl)

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards: Environmentally hazardous

14.6. Special precautions for user:

Tunnel restriction code: (E)

IATA C

14.1. UN number: 3077

14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lenacil,

Triflusulfuron methyl)

14.3. Transport hazard class(es): 9
14.4. Packing group: III

14.5. Environmental hazards : Environmentally hazardous

14.6. Special precautions for user:

no data available

**IMDG** 

14.1. UN number: 3077

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14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Lenacil, Triflusulfuron methyl)

14.3. Transport hazard class(es): 9
14.4. Packing group: III

14.5. Environmental hazards : Marine pollutant

14.6. Special precautions for user:

no data available

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

Not applicable

## **SECTION 15: Regulatory information**

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

Other regulations : The product is classified as dangerous in accordance with Regulation (EC) No.

1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. Take note of

Directive 96/82/EC on the control of major-accident hazards involving

dangerous substances. Take note of Directive 2000/39/EC establishing a first list

of indicative occupational exposure limit values.

## 15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.

Refer to the label for exposure assessment information.

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

### Full text of H-Statements referred to under section 3.

H302 Harmful if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-No. Chemical Abstracts Service number CLP Classification, Labelling and Packaging

EbC50 Concentration at which 50% reduction of biomass is observed

EC50 Median effective concentration

EN European Norm

EPA Environmental Protection Agency

ErC50 Concentration at which a 50% inhibition of growth rate is observed



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EyC50 Concentration at which 50 % inhibition of yield is observed

IATA\_C International Air Transport Association (Cargo)

IBCInternational Bulk Chemical CodeICAOInternational Civil Aviation OrganizationISOInternational Standard OrganizationIMDGInternational Maritime Dangerous Goods

LC50 Median Lethal Concentration

LD50 Median Lethal Dose

LOEC Lowest Observed Effect Concentration

LOEL Lowest observed effect level

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.o.s. Not Otherwise Specified

NOAEC No Observed Adverse Effect Concentration

NOAEL No observed adverse effect level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

OECD Organisation for Economic Co-operation and Development OPPTS Office of Prevention, Pesticides and Toxic Substances

PBT Persistent, Bioaccumulative and Toxic

STEL Short term exposure limit

TWA Time Weighted Average (TWA):

vPvB very Persistent and very Bioaccumulative

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.