

# Safety data sheet

BASF Safety Data Sheet  
Date / Revised: 05.08.2015  
Product: **COMET**<sup>®</sup>

Ref. ID no. 30396273/SDS\_CPA\_00/EN. Version: 1.0 (according to UN GHS 4th rev.)

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

**COMET**<sup>®</sup>

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

Relevant identified uses: crop protection product, fungicide.

### Details of the supplier of the safety data sheet

#### Company:

BASF New Zealand Limited  
Level 4, 4 Leonard Isitt Drive, Auckland Airport, Auckland 2022  
P.O. Box 407, Auckland 1140  
Phone: + 64 9 255 4300  
Fax: + 64 9 255 4307  
E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

**National Poisons Centre: 0800764 766**

BASF Emergency Advice Number: 0800 944 955 (24 Hour Advice in an Emergency Only)

## 2. Hazards Identification

### Classification of the substance or mixture

Hazard Classification according to HSNO Act 1996

6.1D, 6.3A, 6.4A, 6.9A, 9.1A, 9.3B

### Label elements

Pictogram:



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Priority Identifier (Signal Word):  
Warning

Secondary Identifiers:

Hazard Statements:

H315	Causes skin irritation.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe mist or vapour.
P261	Avoid breathing mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P333 + P311	If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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According to UN GHS criteria

Hazard determining component(s) for labelling: PYRACLOSTROBIN, SOLVENT NAPHTHA, ALCOHOLS, ETHOXYLATED, PROPOXYLATED

### **Other hazards**

According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition/Information on Ingredients

#### Substances

Not applicable

#### Mixtures

##### Chemical nature

Crop protection product, fungicide, emulsifiable concentrate (EC).

##### Hazardous ingredients

pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate

Content (W/W): 23,8 %

CAS Number: 175013-18-0

INDEX-Number: 613-272-00-6

Acute Tox. 3 (Inhalation - mist)

Skin Corr./Irrit. 2

STOT SE 3 (irr. to respiratory syst.)

Aquatic Acute 1

Aquatic Chronic 1

H315, H331, H335, H400, H410

M-factor acute: 100

M-factor chronic: 10

solvent naphtha

Content (W/W): < 50 %

CAS Number: 64742-94-5

REACH registration number: 01-2119451097-39

Asp. Tox. 1

Aquatic Acute 2

Aquatic Chronic 2

H304, H401, H411

Alcohols, C16-18, ethoxylated propoxylated

Content (W/W): < 25 %

CAS Number: 68002-96-0

Acute Tox. 2 (Inhalation - mist)

Aquatic Acute 1

Aquatic Chronic 3

H330, H412, H400

2-ethylhexan-1-ol

Content (W/W): < 5 %

CAS Number: 104-76-7

EC-Number: 203-234-3

Flam. Liq. 4

Acute Tox. 5 (oral)

Skin Corr./Irrit. 3

Eye Dam./Irrit. 2A

Aquatic Acute 3

H319, H316, H303, H402, H227

naphthalene

Content (W/W): < 1 %

CAS Number: 91-20-3

EC-Number: 202-049-5

INDEX-Number: 601-052-00-2

Acute Tox. 4 (oral)

Carc. 2

Aquatic Acute 1

Aquatic Chronic 1

H302, H351, H400, H410

M-factor acute: 1

M-factor chronic: 1

## 4. First-Aid Measures

### Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

Water spray, foam, dry powder, carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations.

### Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. Handling and Storage

### Precautions for safe handling

When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

#### APPROVED HANDLER:

Approved handlers as defined under the HSNO Act 1996 are not required for this product except during commercial use. This product must be under the control of an APPROVED HANDLER if it is being applied in a wide dispersive manner or used by a commercial contractor. Refer to the product label for handling precautions and directions for use.

#### TRACKING:

Not required.

#### RECORD KEEPING:

Records of use must be kept.

#### Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

#### Storage stability:

Storage duration: 60 Months

Protect from temperatures below: 10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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<b>AGGREGATE STORAGE VOLUME THRESHOLDS:</b> When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.						
<b>Location Certificate*:</b>	<b>Hazardous Atmosphere Zone*:</b>	<b>Fire Extinguishers:</b>	<b>Signage [Hazard Class &amp; Emergency Action]:</b>	<b>Emergency Information:</b>	<b>Emergency Response Plan:</b>	<b>Secondary Containment:</b>
NA	NA	NA	100 L	0.1 L	100 L	100 L
* Note: Farms $\geq$ 4 ha are exempt but with controls						
<b>DO NOT STORE OR LOAD WITH:</b> Class 1 Explosive			<b>SEGREGATE FROM:</b> Foodstuffs and Food Containers			
<b>Segregation:</b> In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles, a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.						

**Note:** Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## 8. Exposure Controls/Personal Protection

### Control parameters

Components with occupational exposure limits

91-20-3: naphthalene

104-76-7: 2-Ethylhexan-1-ol

64742-94-5: Solvent naphtha (petroleum), heavy arom.; Kerosine -- unspecified

### Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid
Colour:	dark tan
Odour:	faintly aromatic
Odour threshold:	Not determined since harmful by inhalation.
pH value:	approx. 5 - 7 (1 %(m), 20 °C) (as an emulsion)
pour point:	approx. -5 °C Information applies to the solvent.
Boiling range:	approx. 244 - 292 °C Information applies to the solvent.
Flash point:	approx. 104 °C (DIN EN 22719; ISO 2719)
Evaporation rate:	not applicable
Flammability:	not highly flammable
Lower explosion limit:	0.6 %(V) Information applies to the solvent.
Upper explosion limit:	7 %(V) Information applies to the solvent.
Ignition temperature:	425 °C The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. (Directive 92/69/EEC, A.15)
Vapour pressure:	approx. 0.003 hPa (20 °C) Information applies to the solvent.
Density: approx.	1.05 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	Heavier than air. Information based on the main components.
Solubility in water:	emulsifiable
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	approx. 64,2 mPa.s (20 °C, 100 1/s) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. (OECD 114)
Viscosity, kinematic:	23.7 mm <sup>2</sup> /s (40 °C) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. (OECD 114)
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.

### Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See SDS section 7 - Handling and storage.

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### **Incompatible materials**

Substances to avoid:  
Strong acids, strong bases, strong oxidizing agents.

### **Hazardous decomposition products**

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

## **11. Toxicological Information**

### **Information on toxicological effects**

#### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:  
LD50 rat (oral): 317 mg/kg  
LC50 rat (by inhalation): > 1,14 - < 5,3 mg/l 4 h (OECD Guideline 403). An aerosol was tested.  
LD50 rat (dermal): > 4.000 mg/kg (OECD Guideline 402)

#### Irritation

Assessment of irritating effects:  
Skin contact causes irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:  
Sensitization after skin contact possible.

Experimental/calculated data:  
Guinea pig maximization test guinea pig: Caused skin sensitization in animal studies.

#### Germ cell mutagenicity

Assessment of mutagenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

*Information on: naphthalene*  
*Assessment of mutagenicity:*

*The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals. Literature data.*

#### Carcinogenicity

Assessment of carcinogenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components.



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*Information on: Solvent naphtha (petroleum), heavy arom.; Kerosine -- unspecified*

*Assessment of carcinogenicity:*

*Long-term exposure to highly irritating concentrations resulted in skin tumours in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

*Information on: naphthalene*

*Assessment of carcinogenicity:*

*In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification. The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

#### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxyethyl}phenyl}(N-methoxy)carbamate*

*Assessment of repeated dose toxicity:*

*After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.*

*Information on: 2-Ethylhexan-1-ol*

*Assessment of repeated dose toxicity:*

*Repeated exposure to high doses of the substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man.*

#### Aspiration hazard

No aspiration hazard expected.

#### Other relevant toxicity information

Misuse can be harmful to health.

## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h) 0,0229 mg/l, *Oncorhynchus mykiss* (EPA 72-1, static)

Aquatic invertebrates:

EC50 (48 h) 0,046 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 0,27 mg/l (biomass), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC50 (72 h) 0,69 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate*

Assessment biodegradation and elimination (H<sub>2</sub>O):

*Not readily biodegradable (by OECD criteria).*

### Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate*

*Bioaccumulation potential:*

*Bioconcentration factor: 379 - 507, *Oncorhynchus mykiss* (OECD-Guideline 305)*

*Accumulation in organisms is not to be expected.*

### Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate.*

*Assessment transport between environmental compartments:*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

### Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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### Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### Additional information

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## 13. Disposal Considerations

#### Container:

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).

#### Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

#### Product:

Dispose of this product only by using according to the label or at an approved landfill or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

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## 14. Transport Information

#### Commercial transport:

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Marine pollutant:	yes
HAZCHEM:	3[Y]

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## 15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

#### NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR000652.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Registered pursuant to the ACVM Act 1997, Nos. P6017.  
See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.

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## 16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Skin Sens.	Skin sensitization.
STOT SE	Specific target organ toxicity — single exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
Eye Dam./Irrit.	Serious eye damage/eye irritation
Carc.	Carcinogenicity
H315	Causes skin irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H330	Fatal if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H316	Causes mild skin irritation.
H303	May be harmful if swallowed.
H402	Harmful to aquatic life.
H227	Combustible liquid.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

| Vertical lines in the left-hand margin indicate an amendment from the previous version.