

ISCC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert-DE100-10223125

SGS Germany GmbH
Europa Allee 12, D-49685 Emstek
certifies that

Oxea GmbH

Otto-Roelen-Strasse 3
46147 Oberhausen
GERMANY
operating under a tolling agreement



complies with the requirements of the certification system

ISCC PLUS

(International Sustainability and Carbon Certification)

Place of the audit:
see above

This certificate is valid from 20/05/2025 to 19/05/2026

The site of the system user is certified as:
specialty chemical plant

The scope of the certificate includes the following chain of custody options:
mass balance

Emstek, 19/05/2025
Place and date of issue


SGS Germany GmbH
Stamp, Signature

The issuing Certification Body is responsible for the accuracy of this document.

Version / Date: 2 (1 adjustment) / 20/05/2025



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Sustainable materials handled by the certified site

(This annex is applicable for all scopes except of Trader, Trader with storage, Warehouse, Logistic centres, MTBE and ETBE)

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Input material	Output material	GHG values ¹	Raw material category ²	SAI/FSA ³	FEFAC ⁴
ethylene	carboxylic acids	N/A	bio, bio-circular, circular	N/A	N/A
ethylene	esters (N-propyl acetate)	N/A	bio, bio-circular, circular	N/A	N/A
ethylene	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
propylene	carboxylic acids	N/A	bio, bio-circular, circular	N/A	N/A
propylene	esters (heptanoic acid, trimethylolpropane)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A

1	ISCC PLUS add-ons (voluntary application, see www.iscc-system.org for further information): <ul style="list-style-type: none"> • 202-04: Food Security Standard • 202-07: Low ILUC-risk feedstock • 205-01: GHG emission requirements • 205-02: Consumables • 205-03: Non GMO for food and feed • 205-04: Non GMO for technical markets
2	Bio raw materials complies with the ISCC Principles 1 – 6 for the cultivation and harvesting of sustainable biomass. Bio-circular and circular raw materials meet the ISCC definition of waste or residue, i.e. it was not intentionally produced and not intentionally modified, or contaminated, or discarded, to meet the definition of waste or residue. For circular raw materials, the voluntary information about PIR (post-industrial recycling) or PCR (post-consumer recycling) material can be stated in brackets.
3	Farm Sustainability Assessment (FSA) was developed by the Sustainable Agriculture Initiative (SAI) SAI Gold Compliance: ISCC Compliant can be claimed as "SAI FSA 3.0 Gold Level Equivalence"
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propylene	oxo aldehydes	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	polyols (tricyclodecandimethanol)	N/A	bio, bio-circular, circular	N/A	N/A
dicyclopentadiene	polyols (tricyclodecandimethanol)	N/A	bio, bio-circular, circular	N/A	N/A
oxo aldehydes	carboxylic acids	N/A	bio, bio-circular, circular	N/A	N/A
oxo aldehydes	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A

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oxo alcohols	esters (N-isobutyl acetate, N-propyl acetate)	N/A	bio, bio-circular, circular	N/A	N/A
carboxylic acids	esters (heptanoic acid, neopentyl glycol)	N/A	bio, bio-circular, circular	N/A	N/A
octanol	alkyl amine (octyl amine)	N/A	bio, bio-circular, circular	N/A	N/A
ammonia	alkyl amine (2-ethylhexyl amine, butyl amine, isopropyl amine, octyl amine, propyl amine)	N/A	bio, bio-circular, circular	N/A	N/A
acetone	alkyl amine (isopropyl amine)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	2-ethylhexanoic acid	N/A	bio, bio-circular, circular	N/A	N/A

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hydrogen	2-ethylhexanol	N/A	bio, bio-circular, circular	N/A	N/A
propylene	2-ethylhexanol	N/A	bio, bio-circular, circular	N/A	N/A
butyraldehyde	2-ethylhexanol	N/A	bio, bio-circular, circular	N/A	N/A
oxo aldehydes	2-ethylhexanol	N/A	bio, bio-circular, circular	N/A	N/A
ethylene	alkyl amine (propyl amine)	N/A	bio, bio-circular, circular	N/A	N/A
butyraldehyde	butanol	N/A	bio, bio-circular, circular	N/A	N/A

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hydrogen	butanol	N/A	bio, bio-circular, circular	N/A	N/A
propylene	butanol	N/A	bio, bio-circular, circular	N/A	N/A
propylene	butyraldehyde	N/A	bio, bio-circular, circular	N/A	N/A
alpha-olefin (C12/C14-mixture, decene, diisobutylene, heptene, hexene, octene)	carboxylic acid	N/A	bio, bio-circular, circular	N/A	N/A
oxygen	carboxylic acid	N/A	bio, bio-circular, circular	N/A	N/A
propionaldehyde	carboxylic acid	N/A	bio, bio-circular, circular	N/A	N/A

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butyraldehyde	carboxylic acid	N/A	bio, bio-circular, circular	N/A	N/A
oxo aldehydes	2-ethylhexanoic acid	N/A	bio, bio-circular, circular	N/A	N/A
trimethylolpropane	esters (heptanoic acid, trimethylolpropane)	N/A	bio, bio-circular, circular	N/A	N/A
alpha-olefin (C12/C14-mixture, decene, diisobutylene, heptene, hexene, octene)	esters (heptanoic acid, trimethylolpropane)	N/A	bio, bio-circular, circular	N/A	N/A
2-ethylhexanol	esters (bis(2-ethylhexyl)-1,4-benzendicarboxylat)	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	alkyl amine (2-ethylhexyl amine, butyl amine, isopropyl amine, octyl amine, propyl amine)	N/A	bio, bio-circular, circular	N/A	N/A

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propylene	alkyl amine (2-ethylhexyl amine, butyl amine)	N/A	bio, bio-circular, circular	N/A	N/A
syngas (50% carbon monoxide, 50% hydrogen)	butyraldehyde	N/A	bio, bio-circular, circular	N/A	N/A
carboxylic acid	esters (bis(2-ethylhexyl)-1,4-benzendicarboxylat)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	esters (bis(2-ethylhexyl)-1,4-benzendicarboxylat)	N/A	bio, bio-circular, circular	N/A	N/A
acetic acid	esters (N-isobutyl acetate)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	esters (N-isobutyl acetate)	N/A	bio, bio-circular, circular	N/A	N/A

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glycols	esters (heptanoic acid, neopentyl glycol)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	esters (heptanoic acid, neopentyl glycol)	N/A	bio, bio-circular, circular	N/A	N/A
alpha olefins (C12/C14-mixture, decene, diisobutylene, heptene, hexene, octene)	esters (heptanoic acid, neopentyl glycol)	N/A	bio, bio-circular, circular	N/A	N/A
acetic acid	esters (N-propyl acetate)	N/A	bio, bio-circular, circular	N/A	N/A
2-ethylhexanoic acid	esters (triethylenglykol-di-(2-ethylhexanoat))	N/A	bio, bio-circular, circular	N/A	N/A
glycols	esters (triethylenglykol-di-(2-ethylhexanoat))	N/A	bio, bio-circular, circular	N/A	N/A

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propylene	esters (triethylenglykol-di-(2-ethylhexanoat))	N/A	bio, bio-circular, circular	N/A	N/A
carboxylic acid	esters (tris(2-ethylhexyl)trimellitrat)	N/A	bio, bio-circular, circular	N/A	N/A
propylene	esters (tris(2-ethylhexyl)trimellitrat)	N/A	bio, bio-circular, circular	N/A	N/A
2-ethylhexanol	esters (tris(2-ethylhexyl)trimellitrat)	N/A	bio, bio-circular, circular	N/A	N/A
formalin / formaldehyde / methanal	glycols	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	glycols	N/A	bio, bio-circular, circular	N/A	N/A

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propylene	glycols	N/A	bio, bio-circular, circular	N/A	N/A
oxo aldehydes	glycols	N/A	bio, bio-circular, circular	N/A	N/A
alpha olefins (C12/C14-mixture, decene, diisobutylene, heptene, hexene, octene)	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
butene	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
ethylene	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A

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oxo aldehydes	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
propylene	oxo alcohols	N/A	bio, bio-circular, circular	N/A	N/A
alpha olefins (C12/C14-mixture, decene, diisobutylene, heptene, hexene, octene)	oxo aldehydes	N/A	bio, bio-circular, circular	N/A	N/A
butene	oxo aldehydes	N/A	bio, bio-circular, circular	N/A	N/A
syngas (50% carbon monoxide, 50% hydrogen)	oxo aldehydes	N/A	bio, bio-circular, circular	N/A	N/A
syngas (50% carbon monoxide, 50% hydrogen)	polyols (tricyclodecandimethanol)	N/A	bio, bio-circular, circular	N/A	N/A

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dicyclopentadiene	primary alcohols (C11)	N/A	bio, bio-circular, circular	N/A	N/A
syngas (50% carbon monoxide, 50% hydrogen)	primary alcohols (C11)	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	primary alcohols (C11)	N/A	bio, bio-circular, circular	N/A	N/A
syngas (50% carbon monoxide, 50% hydrogen)	propionaldehyde	N/A	bio, bio-circular, circular	N/A	N/A
hydrogen	trimethylolpropane	N/A	bio, bio-circular, circular	N/A	N/A
propylene	trimethylolpropane	N/A	bio, bio-circular, circular	N/A	N/A

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2 Bio raw materials complies with the ISCC Principles 1 – 6 for the cultivation and harvesting of sustainable biomass. Bio-circular and circular raw materials meet the ISCC definition of waste or residue, i.e. it was not intentionally produced and not intentionally modified, or contaminated, or discarded, to meet the definition of waste or residue. For circular raw materials, the voluntary information about PIR (post-industrial recycling) or PCR (post-consumer recycling) material can be stated in brackets.

3 Farm Sustainability Assessment (FSA) was developed by the Sustainable Agriculture Initiative (SAI)

SAI Gold Compliance: ISCC Compliant can be claimed as "SAI FSA 3.0 Gold Level Equivalence"

4 FEFAC: European Feed Manufacturers' Federation. ISCC compliant materials can be claimed as "in line with FEFAC soy sourcing guidelines 2015"

The issuing Certification Body is responsible for the accuracy of this document

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Annex I to the certificate:

Sustainable materials handled by the certified site

(This annex is applicable for all scopes except of Trader, Trader with storage, Warehouse, Logistic centres, MTBE and ETBE)

This annex is only valid in connection with the certificate:

ISCC-PLUS-Cert-DE100-10223125 issued on 19/05/2025

Input material	Output material	GHG values ¹	Raw material category ²	SAI/FSA ³	FEFAC ⁴
butyraldehyde	trimethylolpropane	N/A	bio, bio-circular, circular	N/A	N/A
formalin / formaldehyde / methanal	trimethylolpropane	N/A	bio, bio-circular, circular	N/A	N/A
butene	carboxylic acid	N/A	bio, bio-circular, circular	N/A	N/A
carboxylic acid	esters (heptanoic acid, trimethylolpropane)	N/A	bio, bio-circular, circular	N/A	N/A

1 ISCC PLUS add-ons (voluntary application; see www.iscc-system.org for further information):

- 202-04: Food Security Standard
- 202-07: Low ILUC-risk feedstock
- 205-01: GHG emission requirements
- 205-02: Consumables
- 205-03: Non GMO for food and feed
- 205-04: Non GMO for technical markets

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