

ISCC PLUS Certificate

CONTROLUNION

Certificate Number: ISCC-PLUS-Cert-DE105-88519603

Control Union Certifications Germany GmbH Bornitzstr. 73-75, D-10365 Berlin, Germany

certifies that

HD Hyundai Chemical Co., Ltd. 181 Pyeongsin 2-ro, Daesan-eup, Seosan-si,, 31902 Chungcheongnam-do REPUBLIC OF KOREA

complies with the requirements of the certification system

ISCC PLUS (International Sustainability and Carbon Certification)

Place of the audit

(if different from the legal address of the system user as stated above; only applicable for traders and traders with storage):

n.a.

This certificate is valid from 28.04.2024 to 27.04.2025.

The site of the system user is certified as:

Co-Processing plant Cracker Specialty chemical plant Polymerization plant Trader with storage

The scope of the certificate includes the following chain of custody options: (not applicable for paper traders)

Mass balance

Berlin, 22.04.2024

Place and date of issue

Stamp, Signature of issuing party

The issuing Certification Body is responsible for the accuracy of this document. Version / Date: 7 / 07.02.2025



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-DE105-88519603 issued on 22.04.2024

Input material	Output material	Add-ons (voluntary) ¹⁾	Raw material category ²⁾	SAI FSA ³⁾	FEFAC ⁴⁾
Pyrolysis oil	Naphtha		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	HDPE		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	LDPE		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	EVA		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	PP		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	Butadiene		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	Benzene		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	Mixed xylene		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	Ethylene		Bio-circular Circular	n.a.	n.a.
Pyrolysis oil	Propylene		Bio-circular Circular	n.a.	n.a.
Naphtha	HDPE		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	LDPE		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	EVA		Bio Circular Bio-circular	n.a.	n.a.
The iss	uing Certification Body is responsib Version / Date: 7 /				



Naphtha	PP		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	Butadiene		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	Benzene		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	Mixed xylene		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	Ethylene		Bio Circular Bio-circular	n.a.	n.a.
Naphtha	Propylene		Bio Circular Bio-circular	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Co-processed oil to be used for replacement of naphtha	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	HDPE	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	LDPE	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	EVA	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	PP	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Butadiene	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Benzene	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Mixed xylene	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Ethylene	205-01	Bio	n.a.	n.a.
Crude oil (Soybean), Refined oil (Soybean)	Propylene	205-01	Bio	n.a.	n.a.

The issuing Certification Body is responsible for the accuracy of this document. Version / Date: 7 / 07.02.2025



	4545555	SA SA			
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Co-processed oil to be used for replacement of naphtha	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	HDPE	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	LDPE	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	EVA	205-01	Bio-circular	n.a.	n.a.

The issuing Certification Body is responsible for the accuracy of this document. Version / Date: 7 / 07.02.2025



	4422222				
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	PP	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Butadiene	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Benzene	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Mixed xylene	205-01	Bio-circular	n.a.	n.a.

The issuing Certification Body is responsible for the accuracy of this document. Version / Date: 7 / 07.02.2025

CON.	TROL UNIC	DN	دی ۱۹	CERTIA	
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Ethylene	205-01	Bio-circular	n.a.	n.a.
Used cooking oil (UCO), Used cooking oil (UCO) entirely of veg. origin, Palm oil mill effluent (POME) oil, Animal fats from rendering (category 1 – 3), Food waste, Waste/residues from processing of vegetable or animal oil	Propylene	205-01	Bio-circular	n.a.	n.a.
 ISCC PLUS add-ons (voluntary a 202-04: Food Security Standa 202-07: Low ILUC-risk feedst 205-01: GHG emission requir Bio raw materials complies with t circular and circular raw material not intentionally modified, or com- materials, the voluntary informati 	ard tock rements the ISCC Principles 1 – 6 for the s meet the ISCC definition of wa taminated, or discarded, to meet	205-02: Consur 205-03: Non GM 205-04: Non GM cultivation and h ste or residue, i.e the definition of	nables MO for food and fe MO for technical m arvesting of sustai e. it was not intenti waste or residue. I	arkets inable bioma onally produ For circular i	iced and aw
3) Farm Sustainability Assessment SAI Gold Compliance: ISCC Cor	()	0	, ,)	
⁴⁾ FEFAC: European Feed Manufa sourcing guidelines 2015"	cturers' Federation. ISCC compl	iant materials car	n be claimed as "ir	n line with FE	EFAC soy
The issui	ing Certification Body is responsible Version / Date: 7 / 0		this document.		