

MATERIAL SAFETY DATA SHEETS

SEMAGLUTIDE INTERMEDIATE P29

1.IDENTIFICATION

1.1 GHS PRODUCT IDENTIFIER

Product Name Semaglutide Intermediate P29

1.2 OTHER MEANS OF IDENTIFICATION

Product Name Semaglutide Intermediate P29
Other names C28 H35.4 N9 O17.2 S2 Br2 284.295 408.415 640.425 728.245 744.425 832.425 848.715 964.775 1080.840 1202.920 1325.000 1447.080 1569.160 1691.240 1813.320 1935.400 2057.480 2179.560 2301.640 2423.720 2545.800 2667.880 2789.960 2912.040 3034.120 3156.200 3278.280 3400.360 3522.440 3644.520 3766.600 3888.680 4010.760 4132.840 4254.920 4377.000 4499.080 4621.160 4743.240 4865.320 4987.400 5109.480 5231.560 5353.640 5475.720 5597.800 5719.880 5841.960 5964.040 6086.120 6208.200 6330.280 6452.360 6574.440 6696.520 6818.600 6940.680 7062.760 7184.840 7306.920 7429.000 7551.080 7673.160 7795.240 7917.320 8039.400 8161.480 8283.560 8405.640 8527.720 8649.800 8771.880 8893.960 9016.040 9138.120 9260.200 9382.280 9504.360 9626.440 9748.520 9870.600 9992.680 10114.760 10236.840 10358.920 10481.000 10603.080 10725.160 10847.240 10969.320 11091.400 11213.480 11335.560 11457.640 11579.720 11701.800 11823.880 11945.960 12068.040 12190.120 12312.200 12434.280 12556.360 12678.440 12800.520 12922.600 13044.680 13166.760 13288.840 13410.920 13533.000 13655.080 13777.160 13899.240 14021.320 14143.400 14265.480 14387.560 14509.640 14631.720 14753.800 14875.880 14997.960 15120.040 15242.120 15364.200 15486.280 15608.360 15730.440 15852.520 15974.600 16096.680 16218.760 16340.840 16462.920 16585.000 16707.080 16829.160 16951.240 17073.320 17195.400 17317.480 17439.560 17561.640 17683.720 17805.800 17927.880 18049.960 18172.040 18294.120 18416.200 18538.280 18660.360 18782.440 18904.520 19026.600 19148.680 19270.760 19392.840 19514.920 19637.000 19759.080 19881.160 20003.240 20125.320 20247.400 20369.480 20491.560 20613.640 20735.720 20857.800 20979.880 21101.960 21224.040 21346.120 21468.200 21590.280 21712.360 21834.440 21956.520 22078.600 22200.680 22322.760 22444.840 22566.920 22689.000 22811.080 22933.160 23055.240 23177.320 23299.400 23421.480 23543.560 23665.640 23787.720 23909.800 24031.880 24153.960 24276.040 24398.120 24520.200 24642.280 24764.360 24886.440 25008.520 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37338.600 37460.680 37582.760 37704.840 37826.920 37949.000 38071.080 38193.160 38315.240 38437.320 38559.400 38681.480 38803.560 38925.640 39047.720 39169.800 39291.880 39413.960 39536.040 39658.120 39780.200 39902.280 40024.360 40146.440 40268.520 40390.600 40512.680 40634.760 40756.840 40878.920 41001.000 41123.080 41245.160 41367.240 41489.320 41611.400 41733.480 41855.560 41977.640 42099.720 42221.800 42343.880 42465.960 42588.040 42710.120 42832.200 42954.280 43076.360 43198.440 43320.520 43442.600 43564.680 43686.760 43808.840 43930.920 44053.000 44175.080 44297.160 44419.240 44541.320 44663.400 44785.480 44907.560 45029.640 45151.720 45273.800 45395.880 45517.960 45640.040 45762.120 45884.200 46006.280 46128.360 46250.440 46372.520 46494.600 46616.680 46738.760 46860.840 46982.920 47105.000 47227.080 47349.160 47471.240 47593.320 47715.400 47837.480 47959.560 48081.640 48203.720 48325.800 48447.880 48569.960 48692.040 48814.120 48936.200 49058.280 49180.360 49302.440 49424.520 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120717.240 120839.320 120961.400 121083.480 121205.560 121327.640 121449.720 121571.800 121693.880 121815.960 121938.040 122060.120

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

NO DATA AVAILABLE

MOLECULAR FORMULA: C142H216N38O45 MOLECULAR WEIGHT: 3175.5

Chemical name	Chemical structure and formula	CAS number
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000	NO	1000000-0

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

may cause physiological effects

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Water, use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Carbon oxides, Nitrogen oxides, Hydrogen fluoride, Sulphur oxides

5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid Inhalation of dust from the spilled material. Do not touch damaged containers or spilled material Unless wearing appropriate protective clothing. Ensure adequate ventilation.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in Suitable container for disposal. Clean surface thoroughly to remove residual contamination. For Waste disposal

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry and well-ventilated place

Keep in a dry place.

Storage conditions: Refrigerator

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No exposure limits noted for ingredient

8.2 Appropriate engineering controls

A laboratory fume hood or other appropriate form of local exhaust ventilations

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flammable resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as

a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face

supplied air respirator must be used

Thermal hazards

Wear appropriate thermal protective clothing, when necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Colour

Odour

Melting point/ freezing point

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit / flammability limit

Flash point NA

Auto-ignition temperature NA

Decomposition temperature NA

pH

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure NA

Density and/or relative density NA

Relative vapour density NA

Particle characteristics NA

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport

10.2 Chemical stability

Material is stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use

10.4 Conditions to avoid

Contact with incompatible materials

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- ORAL LD50: NO DATA AVAILABLE
- INHALATION: NO DATA AVAILABLE
- DERMAL: NO DATA AVAILABLE

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

There are no data on the ecotoxicity of this product.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Contaminated packaging Dispose of as above.

14. TRANSPORT INFORMATION

14.1 DOT: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods

14.2 UN Proper Shipping Name

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.2 UN Proper Shipping Name

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.3 Transport hazard class(es)

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.4 Packing group, if applicable

ADR/RID: No data available

IMDG: No data available

IATA: No data available

14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

It is the shipper's responsibility to determine the correct transport classification at the time of shipment

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

European Union

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

16. OTHER INFORMATION

Abbreviations and acronyms

- CAS: CHEMICAL ABSTRACTS SERVICE
- IATA: INTERNATIONAL AIR TRANSPORTATION ASSOCIATION
- LD50: LETHAL DOSE 50%

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product