

Chemical Name	CAS No.	Document Control					Overall PBT Assessment ¹	Chemical Databases of Concern Assessment Step		Persistence Assessment Step		Bioaccumulative Assessment Step	Toxicity Assessment Step			Tier ⁴	Risk Level	Assessed Activity(ies)				Assessed Use(s)					
		Chemical Assessment Date	Independent Peer Review ¹	Department Notification Date	Department Approval Date	Chemical Re-evaluation Date		Listed as a COC on relevant databases?	Identified as Polymer of Low Concern	P criteria fulfilled?	Other P Concerns		B criteria fulfilled?	T criteria fulfilled?	Acute Toxicity ¹			Chronic Toxicity ²	Drilling and Completions	Hydraulic Fracturing	Water Treatment	Residual Drilling Material	Irrigation	Stockwatering	Surface Water	Dust Suppression/ Construction	TBA
Hemicellulase enzyme	9025-56-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Heterocyclic polymer containing nitrogen compounds	9003-39-8	16/04/2021	25/05/2021	25/05/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Hexamethylenediamine	124-09-4	26/07/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X	X		X	X	X				
Hexamethylenetetramine	100-97-0	9/12/2020	14/04/2021	28/04/2021	NR	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	High	X			X	X	X				
Hexanedinitrile	111-69-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	2	No data	1	Low	X			X	X	X				
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	2	2	2	Low	X	X		X	X	X				
Hydrochloric Acid	7647-01-0	9/12/2020	NA	NA	28/04/2021	-	Not a PBT	No	No	NA	No	No	No	1 (fish), 3 (algae & invertebrates) [ECHA]	No data	3	High		X		X	X	X				
Hydrochloric Acid	7647-01-0	18/03/2022	NA	NA	29/04/2022	-	Not a PBT	No	No	NA	No	No	No	2	No data	3	High			X		X	X				
Hydrogen Peroxide	7722-84-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	2	3	2 ^d	Low			X		X	X				
Hydroxypropyl guar	39421-75-5	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	Potentially Yes	1	No data	1	Low	X	X		X	X	X				
Iron oxide	1309-37-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Isopropanol	67-63-0	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Istridicanol, ethoxylated	69011-36-5	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	2	2	2	Low	X			X	X	X				
Lactose	63-42-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Lecithins	8002-43-5	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Magnesium chloride	7786-30-3	1/09/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Magnesium nitrate	10377-60-3	1/09/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Magnesium oxide	1309-48-4	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Magnesium silicate hydrate (talci)	14807-96-6	2/12/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	No data	1	Low		X		X	X	X				
Melamine, formaldehyde, sodium bisulfite polymer	64787-97-9	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Methanol	67-56-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X	X	X	X	X	X				
Methyl Acetate	79-20-9	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	No data	1	Low	X	X	X	X	X	X				
Methylisothiocyanate (MITC)	556-61-6	9/12/2020	NA	NA	5/05/2021	-	Not a PBT	No	No	NA	No	No	No	3	No data	3 ^d	High	X			X	X	X				
Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Modified bentonite	71011-24-0	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Monoethanolamine	141-43-5	29/10/2021	3/11/2021	9/11/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1 (fish, inv) 2 (algae)	1 (fish), 2 (inv, algae)	2	Low	X		X	X	X	X				
Monoethanolamine borate	28038-87-9	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
N,N-Dimethylmethanamine	75-50-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	No data	1	Low		X		X	X	X				
Nitrilotriacetic acid, trisodium salt monohydrate	5064-31-3	16/04/2021	25/05/2021	25/05/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Nitrogen	7727-37-9	27/07/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X	X		X	X	X				
Organic Derivative of Phosphonic Acid, K Salt	38820-59-6	25/03/2022	1/04/2022	13/04/2022	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low			X		X	X				
Peroxyacetic Acid	79-21-0	9/12/2020	NA	NA	28/04/2021	-	Not a PBT	No	No	NA	No	Yes	3	3	3	3	High			X		X	X				
Phosphonic Acid	13598-36-2	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low			X		X	X				
Poly(vinyl acetate)-poly(vinyl alcohol) polymer	25213-24-5	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	Yes	NA	No	No	No	1	1	1	Low	X	X		X	X	X				
Polyalkylene Glycol Monobutyl Ether	9038-95-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
PolyDADMAC	26062-79-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	Yes	NA	No	No	No	2	2	2	Low			X		X	X				
Polypropylene	9003-07-0	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	Yes	NA	No	No	No	1	1	1 ^d	Low	X			X	X	X				
Polypropylene Glycol	25322-69-4	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Polyquaternium-33	69418-26-4	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	Yes	2	2	2	2	Low			X		X	X				
Portland Cement	65997-15-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	NA	NA	No	No	No	1	1	1	Low	X			X	X	X				
Potassium borate	1332-77-0	2/12/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Potassium Chloride	7447-40-7	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Potassium Hydroxide	1310-58-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X		X		X	X				
Potassium pyrophosphate	7320-34-5	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Potassium Sulphate	7778-80-5	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	No data	1	Low	X	X		X	X	X				
Quaternary Ammonium Compounds	61788-63-4	9/12/2020	NA	NA	28/04/2021	-	Not a PBT	No	No	NA	No	No	Yes	3	No data	3	High	X	X		X	X	X				
Silicic Acid, Potassium Salt	1312-76-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Silicon dioxide	112926-00-8	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Silicon dioxide	7631-86-8	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Silicon dioxide	112945-52-5	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X	X		X	X	X				
Silicone based emulsion neutralised polyacrylic based stabiliser	NS	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	Yes	1	1	1	1 ^d	Low	X			X	X	X				
Sodium Acetate	127-09-3	20/06/2021	2/08/2021	4/08/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	No data	1	Low		X		X	X	X				
Sodium Acid Pyrophosphate	7758-16-9	16/04/2021	25/05/2021	25/05/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Sodium Bicarbonate	144-55-8	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X			X	X	X				
Sodium Bisulfite	7631-90-5	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low		X		X	X	X				
Sodium Carbonate	497-19-8	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1	Low	X		X	X	X	X				

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		Chemical Assessment Date	Independent Peer Reviewer ¹	Department Notification Date	Department Approval Date	Chemical Re-evaluation Date		Listed as a COC on relevant databases?	Identified as Polymer of Low Concern	P criteria fulfilled?	Other P Concerns		B criteria fulfilled?	T criteria fulfilled?	Acute Toxicity ³			Chronic Toxicity ³	Drilling and Completions	Hydraulic Fracturing	Water Treatment	Residual Drilling Material	Irrigation	Stockwatering	Surface Water	Dust Suppression/ Construction	TBA
Silica																											
Crystalline silica, cristobalite	14464-46-1	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low	X			X	X	X		X		
Crystalline silica, quartz	14808-60-7	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low	X			X	X	X		X		
Crystalline silica, tridymite	15468-32-3	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low	X			X	X	X		X		
Diatomaceous earth	61790-53-2	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low	X			X	X	X		X		
Non-crystalline silica (impurity)	7631-86-9	3/11/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low		X			X	X		X		
Diatomaceous earth, calcined	91053-39-3	3/11/2021	3/12/2021	7/12/2021	NR	-	Not a PBT	No	No	NA	No	No	No	1	1	1 ⁵	Low		X			X	X		X		
Wood Products																											
Almond Hulls	NS	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	No	No	No	No	1	1	1 ¹	Low	X			X	X	X		X		
Nut Hulls	Mixture	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	No	No	No	No	1	1	1 ¹	Low	X			X	X	X		X		
Vegetable Fibre	NS	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	No	No	No	No	1	1	1 ¹	Low	X			X	X	X		X		
Walnut hulls	Mixture (1756)	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	No	No	No	No	1	1	1 ¹	Low	X			X	X	X		X		
Wood fiber	Mixture (1757)	9/12/2020	14/04/2021	28/04/2021	NR	-	Not a PBT	No	No	No	No	No	No	1	1	1 ¹	Low	X			X	X	X		X		

Footnotes:
1 - Only required for new Tier 1 and Tier 2 chemicals
2 - PBT Assessment based on PBT Framework.
3 - Acute and chronic aquatic toxicity evaluated consistent with assessment criteria and framework.
4 - Categorisation as defined in assessment framework.
a - Similar polymers grouped together. See assessment for CAS NO. 25085-02-3
b - Impurities present at de minimus levels. See assessment for CAS NO. 4080-31-3
c - Similar polymers grouped together. See assessment for CAS NO. 9003-11-6
d - Preponderance of data indicates appropriateness of Tier 2. See dossier for more information.
e - Degradation product. See assessment for CAS NO. 533-74-4
f - Similar polymers grouped together. See assessment for CAS NO. 25322-69-4
g - Preponderance of data indicates appropriateness of Tier 1. See dossier for more information.
h - Similar chemicals grouped together. See assessment for 14464-46-1/14808-60-7/15468-32-3/61790-53-2/7631-86-9/91053-39-3
i - Similar chemicals grouped together. Assessment for wood products includes almond hulls, nut hulls, walnut hulls, vegetable fibre and wood fibre
j - Similar chemicals grouped together. See assessment for 10043-35-3/1303-86-4
k - Similar chemicals grouped together. See assessment for 595585-15-2/113009-87-0

Notes:
NA = not applicable
NR = not required
NS = not supplied
PBT = Persistent, Bioaccumulative and Toxic
B = bioaccumulative
P = persistent
T = toxic