



LIQUID WATER
on MARS

1
00:00:09,770 --> 00:00:07,369
record is a really cool substance it's a

2
00:00:11,150 --> 00:00:09,780
it's a salt so this is a calcium

3
00:00:13,669 --> 00:00:11,160
perchlorate you could find it all over

4
00:00:15,589 --> 00:00:13,679
Mars if you ate it every day for a

5
00:00:17,810 --> 00:00:15,599
really long time it's probably not great

6
00:00:19,519 --> 00:00:17,820
but in relatively small quantities it's

7
00:00:22,220 --> 00:00:19,529
not going to kill you and if you can see

8
00:00:23,570 --> 00:00:22,230
in here it looks very very wet it sucks

9
00:00:25,099 --> 00:00:23,580
up water out of the air if I left this

10
00:00:27,109 --> 00:00:25,109
open for a few more minutes it would be

11
00:00:29,210 --> 00:00:27,119
nothing but liquid and so this is

12
00:00:31,519 --> 00:00:29,220
something that if you're a human on Mars

13
00:00:33,319 --> 00:00:31,529

could be helpful in two ways first it

14

00:00:35,090 --> 00:00:33,329

releases the water so it gives all the

15

00:00:36,680 --> 00:00:35,100

water off and if you're an astronaut and

16

00:00:38,569 --> 00:00:36,690

you're interested in surviving that

17

00:00:40,580 --> 00:00:38,579

water is going to be very useful for you

18

00:00:42,380 --> 00:00:40,590

for a number of different purposes the

19

00:00:44,090 --> 00:00:42,390

second thing that it gives off is oxygen

20

00:00:47,660 --> 00:00:44,100

so perchlorate can actually be something

21

00:00:50,150 --> 00:00:47,670

that instead of being kind of this toxic

22

00:00:52,279 --> 00:00:50,160

chemical that we need to avoid it can be

23

00:00:53,990 --> 00:00:52,289

a resource and turn this thing that we

24

00:00:55,700 --> 00:00:54,000

thought was a negative into a into a

25

00:00:58,130 --> 00:00:55,710

positive for us and make it so that it

